

# **SRC ENERGY**

**WELD COUNTY (NAD83, TRUE NORTH)  
5N-66W-29 SANFORD 21-29 PAD  
SANFORD 5N-30B-M**

**Wellbore #1  
Design #1**

## **Anticollision Report**

**25 October, 2018**

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Design #1		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD Interval 100.00usft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 1,200.00 usft	<b>Error Surface:</b>	Pedal Curve
<b>Warning Levels Evaluated at:</b>	2.45 Sigma	<b>Casing Method:</b>	Added to Error Values

<b>Survey Tool Program</b>	<b>Date</b>	10/25/2018		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	1,800.00	Design #1 (Wellbore #1)	SRC Energy_ISCWSA REV ; Fixed:v2:crustal field declination	
1,800.00	15,492.61	Design #1 (Wellbore #1)	SRC Energy_ISCWSA REV ; Fixed:v2:Rockies, crustal dec + 3-axis correction	

<b>Summary</b>						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
5N-66W-29 Offsets Incomplete (Need 2 Directionals)						
BENSLER J 29-17D - Noble PR Well - Actual Ensign Su	2,238.21	2,107.58	1,037.01	1,012.52	42.344	CC, ES
BENSLER J 29-17D - Noble PR Well - Actual Ensign Su	6,700.00	6,640.56	1,129.00	1,078.62	22.412	SF
BENSLER J 29-18D - Noble SI Well - Actual Ensign Surv	4,214.83	4,253.86	299.27	265.95	8.981	CC, ES
BENSLER J 29-18D - Noble SI Well - Actual Ensign Surv	4,300.00	4,324.46	301.92	267.78	8.845	SF
BENSLER J 29-21D (Need Directional Surveys) - Noble	3,091.55	3,017.88	862.89	747.92	7.505	CC
BENSLER J 29-21D (Need Directional Surveys) - Noble	3,700.00	3,610.84	873.62	736.14	6.355	ES
BENSLER J 29-21D (Need Directional Surveys) - Noble	6,700.00	6,534.82	1,184.32	935.01	4.751	SF
BENSLER J 29-27D (Need Directional Surveys) - Noble	3,200.16	3,123.73	904.91	785.93	7.606	CC
BENSLER J 29-27D (Need Directional Surveys) - Noble	3,900.00	3,805.74	918.42	773.48	6.337	ES
BENSLER J 29-27D (Need Directional Surveys) - Noble	6,700.00	6,534.82	1,199.39	949.95	4.808	SF
CARLSON 10-29 - Noble SI Well - Actual VES Surveys						Out of range
HSR-MILLARD 9-29 - Noble SI Well - No Surveys						Out of range
KAMMERZELL 1 - XOG P&A Well - No Surveys						Out of range
KAMMERZELL 29-3H6 - Noble SI Well - No Surveys	200.00	201.00	176.35	165.97	17.001	CC
KAMMERZELL 29-3H6 - Noble SI Well - No Surveys	400.00	401.16	179.64	162.58	10.528	ES
KAMMERZELL 29-3H6 - Noble SI Well - No Surveys	1,800.00	1,769.24	399.09	330.85	5.849	SF
KAMMERZELL 29-4H6 - XOG PR Well - No Surveys	9,345.22	7,206.04	322.37	30.17	1.103	Level 2, CC, ES, SF
KAMMERZELL 29-5 - XOG PR Well - No Surveys						Out of range
KAMMERZELL 29-6H6 - Noble SI Well - No Surveys	7,977.85	7,161.51	261.31	-12.81	0.953	Level 1, CC, ES, SF
KAMMERZELL J 29-19 - Noble SI Well - Actual Coretech	8,817.21	7,172.50	751.30	701.46	15.074	CC, ES
KAMMERZELL J 29-19 - Noble SI Well - Actual Coretech	8,900.00	7,170.12	755.84	705.45	14.999	SF
UPRC 29-7C - Noble T/A Well - No Surveys	6,700.00	6,537.82	157.25	-93.73	0.627	Level 1, CC, ES, SF
UPRC 29-8C - Noble SI Well - No Surveys						Out of range
UPV 29-1H6 - Noble PR Well - No Surveys						Out of range
UPV 29-2H6 - Noble SI Well - No Surveys	3,431.08	3,335.77	921.71	794.42	7.241	CC
UPV 29-2H6 - Noble SI Well - No Surveys	4,000.00	3,909.80	930.50	781.33	6.238	ES
UPV 29-2H6 - Noble SI Well - No Surveys	6,700.00	6,521.82	1,179.43	930.05	4.730	SF

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<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

### Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
5N-66W-29 SANFORD 21-29 PAD						
SANFORD 1C-27-XR - Wellbore #1 - Design #1	200.05	201.05	204.90	197.32	27.052	CC, ES
SANFORD 1C-27-XR - Wellbore #1 - Design #1	300.00	301.09	206.55	198.90	26.991	SF
SANFORD 1N-27A-XR - Wellbore #1 - Design #1	200.00	201.00	192.12	184.55	25.365	CC, ES
SANFORD 1N-27A-XR - Wellbore #1 - Design #1	300.00	300.44	194.02	186.37	25.352	SF
SANFORD 1N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	219.16	211.59	28.935	CC, ES, SF
SANFORD 1N-27C-XR - Wellbore #1 - Design #1	200.68	201.72	180.15	172.57	23.783	CC, ES
SANFORD 1N-27C-XR - Wellbore #1 - Design #1	300.00	303.35	181.09	173.44	23.659	SF
SANFORD 26C-27-XR - Wellbore #1 - Design #1	200.00	201.00	266.12	258.55	35.135	CC, ES, SF
SANFORD 26N-27A-XR - Wellbore #1 - Design #1	200.00	201.00	249.90	242.32	32.993	CC, ES, SF
SANFORD 26N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	234.08	226.51	30.905	CC, ES, SF
SANFORD 30C-30-M - Wellbore #1 - Design #1	200.00	200.00	200.00	192.42	26.406	CC, ES
SANFORD 30C-30-M - Wellbore #1 - Design #1	300.00	297.73	202.01	194.36	26.385	SF
SANFORD 30N-30A-M - Wellbore #1 - Design #1	200.00	200.00	179.97	172.39	23.761	CC, ES, SF
SANFORD 30N-30B-M - Wellbore #1 - Design #1	200.00	200.00	220.04	212.46	29.052	CC, ES
SANFORD 30N-30B-M - Wellbore #1 - Design #1	300.00	296.41	222.30	214.65	29.036	SF
SANFORD 31N-30B-M - Wellbore #1 - Design #1	200.00	200.00	59.75	52.17	7.888	CC, ES
SANFORD 31N-30B-M - Wellbore #1 - Design #1	15,492.61	15,407.04	660.09	385.67	2.405	SF
SANFORD 31N-30C-M - Wellbore #1 - Design #1	200.00	200.00	79.78	72.21	10.534	CC, ES
SANFORD 31N-30C-M - Wellbore #1 - Design #1	15,492.61	15,467.52	881.02	606.67	3.211	SF
SANFORD 32N-30B-M - Wellbore #1 - Design #1	702.82	697.78	35.92	27.55	4.292	CC
SANFORD 32N-30B-M - Wellbore #1 - Design #1	800.00	794.01	36.16	27.46	4.160	ES
SANFORD 32N-30B-M - Wellbore #1 - Design #1	15,492.61	15,572.92	439.71	165.01	1.601	SF
SANFORD 32N-30C-M - Wellbore #1 - Design #1	200.00	200.00	20.04	12.46	2.646	CC
SANFORD 32N-30C-M - Wellbore #1 - Design #1	15,492.61	15,599.89	224.43	-44.60	0.834	Level 1, ES, SF
SANFORD 40N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	151.37	143.80	19.985	CC, ES
SANFORD 40N-27B-XR - Wellbore #1 - Design #1	7,630.94	7,446.50	199.82	159.58	4.966	SF
SANFORD 40N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	155.18	147.60	20.487	CC, ES
SANFORD 40N-27C-XR - Wellbore #1 - Design #1	8,000.00	7,227.40	497.09	453.86	11.499	SF
SANFORD 41N-27B-XR - Wellbore #1 - Design #1	200.69	201.73	169.95	162.38	22.437	CC, ES
SANFORD 41N-27B-XR - Wellbore #1 - Design #1	300.00	303.14	170.85	163.19	22.321	SF
SANFORD 41N-27C-XR - Wellbore #1 - Design #1	200.50	201.53	161.35	153.78	21.302	CC, ES
SANFORD 41N-27C-XR - Wellbore #1 - Design #1	7,200.00	7,777.27	725.16	685.75	18.402	SF
SANFORD 4C-30-M - Wellbore #1 - Design #1	200.00	200.00	119.85	112.28	15.825	CC, ES
SANFORD 4C-30-M - Wellbore #1 - Design #1	15,492.61	15,578.00	1,142.28	869.82	4.193	SF
SANFORD 4N-30A-M - Wellbore #1 - Design #1	200.00	200.00	99.82	92.25	13.180	CC, ES
SANFORD 4N-30A-M - Wellbore #1 - Design #1	15,492.61	15,265.78	1,085.39	812.78	3.981	SF
SANFORD 4N-30B-M - Wellbore #1 - Design #1	200.00	200.00	139.90	132.32	18.471	CC, ES
SANFORD 4N-30B-M - Wellbore #1 - Design #1	300.00	300.22	141.27	133.62	18.451	SF
SANFORD 4N-30C-M - Wellbore #1 - Design #1	200.00	200.00	159.92	152.35	21.115	CC, ES, SF
SANFORD 5C-30-M - Wellbore #1 - Design #1	200.00	200.00	20.03	12.46	2.645	CC
SANFORD 5C-30-M - Wellbore #1 - Design #1	300.00	300.57	20.07	12.42	2.623	ES
SANFORD 5C-30-M - Wellbore #1 - Design #1	15,492.61	15,666.50	325.62	76.27	1.306	Level 3, SF
SANFORD 5N-30C-M - Wellbore #1 - Design #1	200.00	200.00	40.07	32.50	5.291	CC, ES
SANFORD 5N-30C-M - Wellbore #1 - Design #1	15,492.61	15,500.93	442.78	168.77	1.616	SF
SANFORD 8C-27-XR - Wellbore #1 - Design #1	200.32	201.33	155.15	147.57	20.483	CC, ES
SANFORD 8C-27-XR - Wellbore #1 - Design #1	7,784.93	7,348.69	466.86	428.63	12.210	SF
SANFORD 8N-27B-XR - Wellbore #1 - Design #1	200.11	201.11	151.08	143.51	19.947	CC, ES
SANFORD 8N-27B-XR - Wellbore #1 - Design #1	7,400.00	7,590.55	229.11	189.73	5.818	SF
SANFORD 8N-27C-XR - Wellbore #1 - Design #1	7,661.32	7,437.11	23.39	-16.01	0.594	Level 1, CC, ES, SF

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<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

### Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
5N-66W-30 Offsets Incomplete						
HOMYAK 1 - XOG PR Well - No Surveys						Out of range
HOMYAK 2 - XOG SI Well - No Surveys	10,819.55	7,203.60	153.31	-161.24	0.487	Level 1, CC, ES, SF
LUNDVALL 3 - Noble PR Well - No Surveys	14,896.02	7,235.93	146.99	-235.27	0.385	Level 1, CC, ES, SF
LUNDVALL 30-11H6 - Noble SI Well - No Surveys						Out of range
LUNDVALL 4 - Noble PR Well - No Surveys						Out of range
LUNDVALL J 30-19 - Noble PR Well - Actual Ensign Sur	14,236.31	7,397.96	777.70	620.64	4.952	CC, ES, SF
MOSSBERG PMJ 30-10 - Noble PR Well - No Surveys	12,245.77	7,203.83	1,130.46	792.91	3.349	CC, ES
MOSSBERG PMJ 30-10 - Noble PR Well - No Surveys	12,300.00	7,203.74	1,131.76	793.07	3.342	SF
MOSSBERG-PM J30-9 - Noble PR Well - No Surveys						Out of range
RICKS-PM J30-12 - Noble PR Well - No Surveys	14,898.09	7,219.93	1,150.01	768.28	3.013	CC
RICKS-PM J30-12 - Noble PR Well - No Surveys	14,900.00	7,219.94	1,150.01	768.24	3.012	ES
RICKS-PM J30-12 - Noble PR Well - No Surveys	15,000.00	7,220.11	1,154.51	770.90	3.010	SF
STEVE J 30-4J - Noble PR Well - Actual Multishot Surve						Out of range
STEVE J 30-6 - Noble PR Well - Actual Multishot Survey	13,442.21	7,435.27	165.24	19.81	1.136	Level 2, CC, ES, SF

<b>Offset Design</b>												Offset Site Error:	0.00 usft
5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-17D - Noble PR Well - Actual En												Offset Well Error:	3.28 usft
Survey Program: 100-SRC Energy_2° CONE_2.448, 517-SRC Energy_ISCWSA REV 2 MWD													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
400.00	399.84	388.84	388.84	3.41	12.22	-56.71	-1.79	1,202.21	1,198.36	1,181.94	16.42	72.985	
500.00	499.45	488.42	488.42	3.49	14.99	-57.14	-1.77	1,202.21	1,193.59	1,174.32	19.27	61.948	
600.00	598.70	585.98	585.98	3.61	15.49	-57.74	-1.63	1,202.26	1,187.05	1,167.17	19.88	59.708	
700.00	697.47	682.47	682.47	3.76	15.49	-58.50	-1.55	1,202.49	1,178.96	1,158.92	20.04	58.843	
800.00	795.62	779.55	779.55	3.96	15.50	-59.44	-1.55	1,202.87	1,169.38	1,149.14	20.24	57.782	
900.00	893.16	877.02	877.02	4.20	15.52	-60.45	-1.64	1,203.33	1,158.62	1,138.13	20.48	56.560	
1,000.00	990.62	978.25	978.25	4.49	15.54	-61.43	-1.85	1,203.63	1,147.79	1,127.02	20.77	55.262	
1,100.00	1,088.07	1,077.46	1,077.46	4.80	15.56	-62.40	-2.15	1,203.66	1,137.02	1,115.94	21.09	53.924	
1,200.00	1,185.52	1,174.62	1,174.61	5.13	15.58	-63.38	-2.30	1,203.65	1,126.57	1,105.14	21.43	52.574	
1,300.00	1,282.97	1,270.56	1,270.56	5.48	15.61	-64.36	-2.65	1,203.74	1,116.54	1,094.74	21.80	51.227	
1,400.00	1,380.43	1,382.76	1,382.69	5.85	15.65	-65.36	-6.09	1,203.74	1,106.39	1,084.20	22.19	49.862	
1,500.00	1,477.88	1,481.12	1,480.76	6.23	15.70	-66.04	-13.50	1,203.66	1,095.75	1,073.15	22.60	48.485	
1,600.00	1,575.33	1,598.95	1,598.04	6.62	15.76	-66.73	-24.89	1,203.54	1,084.98	1,061.95	23.03	47.114	
1,700.00	1,672.79	1,703.43	1,701.56	7.02	15.83	-67.17	-38.86	1,201.87	1,072.11	1,048.64	23.48	45.669	
1,800.00	1,770.24	1,791.54	1,788.51	7.42	15.90	-67.41	-53.11	1,201.48	1,059.95	1,036.00	23.95	44.265	
1,900.00	1,867.69	1,860.83	1,856.81	7.65	15.96	-67.56	-64.70	1,202.56	1,049.68	1,025.65	24.03	43.677	
2,000.00	1,965.14	1,927.28	1,922.32	7.70	16.02	-67.71	-75.42	1,205.60	1,042.49	1,018.34	24.15	43.175	
2,100.00	2,062.60	1,996.21	1,990.19	7.78	16.09	-67.86	-86.16	1,210.96	1,038.48	1,014.22	24.27	42.795	
2,200.00	2,160.05	2,073.65	2,066.52	7.87	16.17	-68.10	-96.71	1,218.71	1,037.09	1,012.67	24.42	42.477	
2,238.21	2,197.28	2,107.58	2,099.95	7.91	16.20	-68.21	-101.13	1,222.47	1,037.01	1,012.52	24.49	42.344	CC, ES
2,300.00	2,257.50	2,163.95	2,155.42	7.98	16.27	-68.38	-108.65	1,229.02	1,037.20	1,012.58	24.62	42.129	
2,400.00	2,354.95	2,252.97	2,242.78	8.11	16.40	-68.58	-121.71	1,240.09	1,038.08	1,013.22	24.85	41.767	
2,500.00	2,452.41	2,332.18	2,320.14	8.25	16.52	-68.68	-134.28	1,251.59	1,040.73	1,015.64	25.08	41.494	
2,600.00	2,549.86	2,422.04	2,407.71	8.41	16.67	-68.79	-148.25	1,266.09	1,045.04	1,019.67	25.37	41.196	
2,700.00	2,647.31	2,520.18	2,503.19	8.59	16.86	-68.86	-164.37	1,282.06	1,049.33	1,023.61	25.71	40.807	
2,800.00	2,744.76	2,612.40	2,592.36	8.78	17.07	-68.82	-181.22	1,298.48	1,054.71	1,028.64	26.08	40.449	
2,900.00	2,842.22	2,709.86	2,686.31	8.98	17.31	-68.71	-200.22	1,316.05	1,060.10	1,033.61	26.50	40.011	
3,000.00	2,939.67	2,805.48	2,778.01	9.20	17.59	-68.50	-220.41	1,334.15	1,066.05	1,039.10	26.95	39.559	
3,100.00	3,037.12	2,900.60	2,869.04	9.43	17.89	-68.28	-240.96	1,352.54	1,072.34	1,044.92	27.42	39.111	

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## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 517-SRC Energy_ISCWSA REV 2 MWD												<b>Offset Well Error:</b>	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
3,200.00	3,134.58	3,021.40	2,985.12	9.66	18.25	-68.06	-266.06	1,374.63	1,077.72	1,049.70	28.02	38.466	
3,300.00	3,232.03	3,118.08	3,078.22	9.91	18.56	-67.91	-285.86	1,391.60	1,082.47	1,053.94	28.53	37.938	
3,400.00	3,329.48	3,223.84	3,180.19	10.17	18.91	-67.77	-306.93	1,410.10	1,087.29	1,058.18	29.10	37.361	
3,500.00	3,426.93	3,319.75	3,273.15	10.43	19.21	-67.76	-324.29	1,426.07	1,091.62	1,061.99	29.63	36.848	
3,600.00	3,524.39	3,400.22	3,351.21	10.71	19.48	-67.79	-337.75	1,440.22	1,097.14	1,067.05	30.09	36.463	
3,700.00	3,621.84	3,509.52	3,457.22	10.99	19.86	-67.87	-355.22	1,460.32	1,103.61	1,072.90	30.72	35.927	
3,800.00	3,719.29	3,611.47	3,556.17	11.27	20.23	-67.94	-371.84	1,478.39	1,109.34	1,078.01	31.33	35.410	
3,900.00	3,816.74	3,723.88	3,665.25	11.57	20.64	-67.96	-391.46	1,497.14	1,113.76	1,081.75	32.01	34.790	
4,000.00	3,914.20	3,808.25	3,747.20	11.87	20.96	-68.00	-405.57	1,511.41	1,118.62	1,086.07	32.56	34.356	
4,100.00	4,011.65	3,896.31	3,832.46	12.17	21.33	-68.02	-420.35	1,527.78	1,125.08	1,091.93	33.15	33.941	
4,200.00	4,109.10	3,994.30	3,926.99	12.48	21.76	-67.98	-438.05	1,546.55	1,131.89	1,098.06	33.82	33.465	
4,300.00	4,206.56	4,100.46	4,029.31	12.79	22.24	-67.91	-457.71	1,566.90	1,138.62	1,104.06	34.56	32.949	
4,400.00	4,304.01	4,192.49	4,118.11	13.11	22.64	-67.87	-474.36	1,584.38	1,145.26	1,110.06	35.20	32.540	
4,500.00	4,401.46	4,305.09	4,227.08	13.43	23.12	-67.90	-493.21	1,605.57	1,152.01	1,116.06	35.95	32.042	
4,600.00	4,498.91	4,413.40	4,332.30	13.76	23.58	-67.96	-511.19	1,623.94	1,156.87	1,120.17	36.70	31.526	
4,700.00	4,596.37	4,515.85	4,431.75	14.09	24.02	-68.02	-528.03	1,641.82	1,162.31	1,124.90	37.42	31.065	
4,800.00	4,693.82	4,621.28	4,534.46	14.42	24.47	-68.14	-544.25	1,659.16	1,166.95	1,128.80	38.15	30.585	
4,900.00	4,791.27	4,700.27	4,611.16	14.75	24.83	-68.19	-557.20	1,672.91	1,172.34	1,133.58	38.76	30.244	
5,000.00	4,888.72	4,801.45	4,709.52	15.09	25.28	-68.31	-572.34	1,691.21	1,178.70	1,139.21	39.49	29.847	
5,100.00	4,986.18	4,925.47	4,830.50	15.43	25.80	-68.50	-590.30	1,711.75	1,183.61	1,143.27	40.34	29.337	
5,200.00	5,083.63	5,031.56	4,933.93	15.78	26.26	-68.61	-607.09	1,728.35	1,187.39	1,146.28	41.11	28.883	
5,300.00	5,181.08	5,177.58	5,077.29	16.12	26.82	-68.95	-627.13	1,747.34	1,189.01	1,146.99	42.03	28.292	
5,400.00	5,278.53	5,326.61	5,225.06	16.47	27.26	-69.65	-641.59	1,759.56	1,186.93	1,144.09	42.84	27.705	
5,500.00	5,375.99	5,444.80	5,342.93	16.82	27.51	-70.47	-648.90	1,764.10	1,181.39	1,137.89	43.51	27.155	
5,600.00	5,473.44	5,547.23	5,445.30	17.17	27.68	-71.38	-651.41	1,766.56	1,175.65	1,131.54	44.11	26.650	
5,700.00	5,570.89	5,651.89	5,549.95	17.52	27.81	-72.49	-650.92	1,767.67	1,169.70	1,125.00	44.70	26.167	
5,800.00	5,668.35	5,754.71	5,652.76	17.88	27.92	-73.62	-649.69	1,768.01	1,163.68	1,118.40	45.27	25.703	
5,900.00	5,765.80	5,855.42	5,753.45	18.23	28.03	-74.79	-647.78	1,767.54	1,157.56	1,111.71	45.84	25.250	
6,000.00	5,863.25	5,949.43	5,847.45	18.59	28.13	-75.86	-646.68	1,767.45	1,152.02	1,105.61	46.41	24.822	
6,100.00	5,960.70	6,044.29	5,942.31	18.95	28.25	-76.89	-646.48	1,767.92	1,147.16	1,100.17	46.99	24.415	
6,200.00	6,058.16	6,139.63	6,037.65	19.31	28.39	-77.91	-646.70	1,768.75	1,142.90	1,095.34	47.56	24.029	
6,300.00	6,155.61	6,241.23	6,139.25	19.67	28.53	-78.99	-647.31	1,769.77	1,139.02	1,090.86	48.15	23.654	
6,400.00	6,253.06	6,344.35	6,242.35	20.03	28.68	-80.08	-648.31	1,770.44	1,135.07	1,086.33	48.74	23.288	
6,500.00	6,350.51	6,443.57	6,341.56	20.40	28.83	-81.13	-649.31	1,770.80	1,131.23	1,081.91	49.32	22.936	
6,600.00	6,447.97	6,542.40	6,440.40	20.76	28.97	-82.21	-650.18	1,770.92	1,127.63	1,077.73	49.90	22.600	
6,628.89	6,476.18	6,570.71	6,468.70	20.84	29.01	-90.86	-650.41	1,770.93	1,127.13	1,077.10	50.04	22.527	
6,700.00	6,545.82	6,640.56	6,538.56	21.04	29.11	-116.78	-650.94	1,770.94	1,129.00	1,078.62	50.37	22.412 SF	
6,800.00	6,643.56	6,737.65	6,635.64	21.24	29.25	-156.47	-651.55	1,770.91	1,144.46	1,093.71	50.75	22.551	
6,900.00	6,738.83	6,848.20	6,746.19	21.40	29.41	-176.59	-652.20	1,770.55	1,173.48	1,122.41	51.06	22.980	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-18D - Noble SI Well - Actual Ens													Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 554-SRC Energy_ISCWSA REV 2 MWD													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	90.29	-5.08	1,013.31	1,013.38					
100.00	100.00	89.00	89.00	3.28	3.56	90.29	-5.08	1,013.31	1,013.32	1,005.69	7.63	132.814		
200.00	200.00	189.00	189.00	3.31	5.73	90.29	-5.08	1,013.31	1,013.32	1,003.50	9.82	103.148		
300.00	299.98	288.98	288.98	3.35	8.87	-56.26	-5.08	1,013.31	1,012.35	999.35	13.00	77.855		
400.00	399.84	388.84	388.84	3.41	12.22	-56.56	-5.08	1,013.31	1,009.45	993.03	16.42	61.480		
500.00	499.45	488.36	488.36	3.49	14.99	-57.05	-5.05	1,013.31	1,004.67	985.40	19.27	52.146		
600.00	598.70	587.77	587.77	3.61	16.12	-57.76	-4.81	1,013.32	998.08	977.56	20.52	48.638		
700.00	697.47	687.59	687.59	3.76	16.13	-58.67	-4.89	1,013.27	989.71	969.04	20.68	47.868		
800.00	795.62	785.12	785.12	3.96	16.14	-59.76	-5.12	1,013.19	979.73	958.85	20.88	46.929		
900.00	893.16	882.48	882.48	4.20	16.15	-60.95	-5.19	1,013.18	968.61	947.48	21.12	45.854		
1,000.00	990.62	981.26	981.26	4.49	16.17	-62.10	-5.47	1,013.10	957.60	936.19	21.41	44.730		
1,100.00	1,088.07	1,079.79	1,079.79	4.80	16.19	-63.26	-6.09	1,012.92	946.85	925.13	21.73	43.582		
1,200.00	1,185.52	1,177.99	1,177.98	5.13	16.22	-64.43	-6.72	1,012.68	936.43	914.36	22.07	42.428		
1,300.00	1,282.97	1,276.15	1,276.14	5.48	16.25	-65.62	-7.43	1,012.37	926.34	903.90	22.44	41.276		
1,400.00	1,380.43	1,374.57	1,374.56	5.85	16.28	-66.83	-8.44	1,012.04	916.60	893.76	22.83	40.141		
1,500.00	1,477.88	1,477.58	1,477.56	6.23	16.33	-68.11	-9.62	1,011.34	906.93	883.68	23.25	39.009		
1,600.00	1,575.33	1,593.63	1,593.57	6.62	16.38	-69.59	-11.13	1,009.49	896.85	873.17	23.68	37.880		
1,700.00	1,672.79	1,733.31	1,732.98	7.02	16.45	-71.32	-15.94	1,002.44	883.37	859.29	24.08	36.680		
1,800.00	1,770.24	1,861.36	1,860.28	7.42	16.53	-72.78	-24.36	991.51	866.24	841.76	24.48	35.385		
1,900.00	1,867.69	1,996.99	1,994.47	7.65	16.64	-74.44	-34.33	974.63	845.59	821.14	24.45	34.588		
2,000.00	1,965.14	2,122.87	2,118.03	7.70	16.77	-75.90	-47.72	954.66	821.16	796.70	24.46	33.572		
2,100.00	2,062.60	2,261.24	2,252.42	7.78	16.97	-77.51	-65.88	927.27	792.60	768.21	24.39	32.495		
2,200.00	2,160.05	2,362.38	2,349.69	7.87	17.15	-78.67	-81.80	904.68	761.21	736.68	24.53	31.028		
2,300.00	2,257.50	2,448.89	2,432.72	7.98	17.31	-79.51	-97.91	886.51	730.35	705.56	24.79	29.464		
2,400.00	2,354.95	2,558.77	2,538.19	8.11	17.54	-80.64	-118.83	863.84	699.95	675.05	24.90	28.106		
2,500.00	2,452.41	2,645.90	2,621.55	8.25	17.75	-81.68	-135.12	844.44	668.32	643.11	25.20	26.516		
2,600.00	2,549.86	2,771.38	2,741.01	8.41	18.10	-83.57	-157.50	813.34	634.90	609.70	25.20	25.192		
2,700.00	2,647.31	2,863.06	2,827.68	8.59	18.40	-85.14	-174.42	788.72	599.92	574.42	25.50	23.530		
2,800.00	2,744.76	2,944.78	2,905.18	8.78	18.66	-86.72	-189.06	767.29	566.22	540.32	25.90	21.860		
2,900.00	2,842.22	3,027.98	2,984.70	8.98	18.92	-88.42	-203.63	747.65	535.44	509.13	26.32	20.347		
3,000.00	2,939.67	3,128.82	3,080.89	9.20	19.28	-90.36	-224.00	725.29	505.20	478.62	26.57	19.012		
3,100.00	3,037.12	3,220.64	3,168.22	9.43	19.63	-92.43	-242.47	703.77	474.48	447.55	26.94	17.614		
3,200.00	3,134.58	3,307.45	3,251.22	9.66	19.96	-94.94	-257.30	683.13	445.87	418.50	27.37	16.290		
3,300.00	3,232.03	3,392.57	3,332.99	9.91	20.27	-97.80	-270.35	663.39	419.85	392.00	27.84	15.078		
3,400.00	3,329.48	3,477.79	3,415.37	10.17	20.57	-100.80	-283.16	645.76	397.27	368.93	28.34	14.019		
3,500.00	3,426.93	3,570.67	3,505.56	10.43	20.90	-104.31	-296.55	628.06	377.76	348.99	28.77	13.131		
3,600.00	3,524.39	3,652.28	3,585.04	10.71	21.19	-107.63	-307.75	613.33	361.16	331.81	29.35	12.306		
3,700.00	3,621.84	3,742.48	3,673.64	10.99	21.47	-111.41	-318.08	599.92	349.98	320.13	29.85	11.724		
3,800.00	3,719.29	3,851.55	3,780.43	11.27	21.84	-116.31	-331.61	582.49	339.43	309.21	30.22	11.233		
3,900.00	3,816.74	3,963.35	3,888.13	11.57	22.34	-122.51	-348.19	557.61	325.94	295.31	30.63	10.640		
4,000.00	3,914.20	4,060.48	3,980.95	11.87	22.82	-128.61	-363.79	533.61	313.79	282.45	31.34	10.013		
4,100.00	4,011.65	4,155.36	4,071.21	12.17	23.30	-134.96	-380.61	509.66	303.86	271.69	32.18	9.443		
4,200.00	4,109.10	4,241.34	4,153.27	12.48	23.72	-140.90	-394.93	488.39	299.34	266.17	33.17	9.024		
4,214.83	4,123.55	4,253.86	4,165.27	12.52	23.78	-141.76	-396.83	485.40	299.27	265.95	33.32	8.981 CC, ES		
4,300.00	4,206.56	4,324.46	4,233.36	12.79	24.10	-146.44	-406.49	469.44	301.92	267.78	34.13	8.845 SF		
4,400.00	4,304.01	4,417.50	4,323.97	13.11	24.48	-151.93	-416.86	451.05	310.82	275.83	34.99	8.883		
4,500.00	4,401.46	4,508.58	4,412.81	13.43	24.85	-156.85	-427.35	433.98	322.29	286.49	35.80	9.003		
4,600.00	4,498.91	4,599.44	4,502.25	13.76	25.16	-160.79	-435.35	420.17	337.98	301.47	36.51	9.257		
4,700.00	4,596.37	4,697.59	4,599.50	14.09	25.45	-164.03	-442.57	409.00	355.56	318.41	37.16	9.570		
4,800.00	4,693.82	4,788.63	4,690.04	14.42	25.67	-166.30	-448.09	401.39	374.31	336.60	37.71	9.926		
4,900.00	4,791.27	4,886.71	4,787.80	14.75	25.89	-168.22	-452.53	394.76	394.45	356.20	38.25	10.313		
5,000.00	4,888.72	4,990.64	4,891.45	15.09	26.10	-169.87	-457.83	389.41	413.84	375.05	38.78	10.670		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-18D - Noble SI Well - Actual Ens												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 100-SRC Energy_2" CONE_2.448, 554-SRC Energy_ISCWSA REV 2 MWD												<b>Offset Well Error:</b>	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	4,986.18	5,089.21	4,989.85	15.43	26.28	-171.03	-462.95	386.50	432.50	393.23	39.28	11.012	
5,200.00	5,083.63	5,176.10	5,076.63	15.78	26.43	-171.88	-466.51	384.21	452.21	412.50	39.71	11.388	
5,300.00	5,181.08	5,263.82	5,164.33	16.12	26.55	-172.42	-466.65	382.51	475.07	434.96	40.11	11.845	
5,400.00	5,278.53	5,362.10	5,262.60	16.47	26.66	-172.78	-465.67	381.94	498.44	457.92	40.52	12.300	
5,500.00	5,375.99	5,461.42	5,361.91	16.82	26.77	-173.04	-464.77	381.99	521.48	480.54	40.94	12.737	
5,600.00	5,473.44	5,561.46	5,461.95	17.17	26.89	-173.28	-464.22	382.32	544.09	502.72	41.36	13.153	
5,700.00	5,570.89	5,661.99	5,562.48	17.52	27.00	-173.53	-464.27	382.59	566.21	524.42	41.79	13.549	
5,800.00	5,668.35	5,763.78	5,664.26	17.88	27.11	-173.65	-464.39	384.18	587.71	545.50	42.21	13.925	
5,900.00	5,765.80	5,862.94	5,763.37	18.23	27.21	-173.63	-464.39	387.22	608.62	566.01	42.61	14.283	
6,000.00	5,863.25	5,958.83	5,859.24	18.59	27.33	-173.81	-465.26	388.18	629.68	586.65	43.03	14.633	
6,100.00	5,960.70	6,055.35	5,955.75	18.95	27.47	-174.15	-466.82	387.28	651.02	607.54	43.48	14.973	
6,200.00	6,058.16	6,152.20	6,052.59	19.31	27.62	-174.45	-468.11	386.64	672.49	628.56	43.93	15.307	
6,300.00	6,155.61	6,253.24	6,153.62	19.67	27.77	-174.70	-469.41	386.44	693.81	649.42	44.40	15.628	
6,400.00	6,253.06	6,352.98	6,253.35	20.03	27.91	-174.91	-470.99	386.74	714.66	669.80	44.85	15.934	
6,500.00	6,350.51	6,447.38	6,347.74	20.40	28.04	-175.08	-472.24	387.10	735.68	690.39	45.29	16.244	
6,600.00	6,447.97	6,543.48	6,443.83	20.76	28.18	-175.24	-473.10	387.40	757.12	711.38	45.73	16.555	
6,700.00	6,545.82	6,642.33	6,542.68	21.04	28.32	150.23	-473.94	387.84	776.20	730.07	46.14	16.824	
6,800.00	6,643.56	6,740.91	6,641.26	21.24	28.46	112.04	-474.81	388.43	788.13	741.67	46.45	16.966	
6,900.00	6,738.83	6,836.83	6,737.17	21.40	28.59	95.14	-475.69	389.12	793.31	746.62	46.69	16.990	
7,000.00	6,829.27	6,925.29	6,825.62	21.50	28.72	89.07	-476.45	389.74	793.25	746.41	46.85	16.932	
7,100.00	6,912.66	7,006.71	6,907.05	21.56	28.84	87.80	-476.99	390.16	790.15	743.21	46.94	16.835	
7,200.00	6,986.95	7,079.80	6,980.13	21.59	28.94	88.79	-477.35	390.50	786.50	739.53	46.97	16.744	
7,283.88	7,040.90	7,132.71	7,033.04	21.58	29.02	90.28	-477.55	390.79	785.11	738.13	46.98	16.711	
7,300.00	7,050.31	7,141.91	7,042.24	21.58	29.03	90.58	-477.58	390.84	785.17	738.20	46.98	16.714	
7,400.00	7,101.17	7,191.72	7,092.05	21.54	29.10	92.19	-477.70	391.16	788.99	742.03	46.96	16.801	
7,500.00	7,138.29	7,228.63	7,128.96	21.46	29.16	92.93	-477.79	391.41	800.19	753.26	46.93	17.049	
7,600.00	7,160.75	7,250.66	7,150.98	21.37	29.19	92.26	-477.85	391.57	820.10	773.22	46.88	17.495	
7,700.00	7,168.01	7,257.29	7,157.62	21.26	29.20	90.08	-477.87	391.61	848.78	802.02	46.77	18.148	
7,800.00	7,168.19	7,256.77	7,157.09	21.16	29.20	90.04	-477.87	391.61	886.72	840.06	46.66	19.004	
7,900.00	7,168.37	7,256.24	7,156.57	21.19	29.20	90.00	-477.87	391.61	933.86	887.28	46.58	20.048	
8,000.00	7,168.55	7,255.72	7,156.04	21.90	29.20	89.97	-477.87	391.60	988.91	942.37	46.53	21.251	
8,100.00	7,168.73	7,255.20	7,155.52	22.80	29.20	89.93	-477.87	391.60	1,050.60	1,004.09	46.52	22.586	
8,200.00	7,168.91	7,254.67	7,155.00	23.78	29.20	89.89	-477.87	391.59	1,117.86	1,071.33	46.52	24.028	
8,300.00	7,169.09	7,254.15	7,154.48	24.84	29.20	89.85	-477.86	391.59	1,189.72	1,143.17	46.55	25.560	



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-21D (Need Directional Surveys)											Offset Site Error:	0.00 usft
Survey Program:		100-SRC Energy_2" CONE_2.448											Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	90.18	-3.27	1,037.55	1,037.61					
100.00	100.00	89.00	89.00	3.28	3.56	90.18	-3.27	1,037.55	1,037.55	1,029.92	7.63	135.990		
200.00	200.00	189.00	189.00	3.31	5.73	90.18	-3.27	1,037.55	1,037.55	1,027.73	9.82	105.615		
300.00	299.98	288.98	288.98	3.35	8.87	-56.37	-3.27	1,037.55	1,036.59	1,023.58	13.00	79.719		
400.00	399.84	388.84	388.84	3.41	12.22	-56.66	-3.27	1,037.55	1,033.69	1,017.28	16.42	62.956		
500.00	499.45	488.45	488.45	3.49	15.65	-57.14	-3.27	1,037.55	1,028.92	1,008.99	19.93	51.618		
600.00	598.70	587.70	587.70	3.61	19.11	-57.82	-3.27	1,037.55	1,022.33	998.83	23.50	43.501		
700.00	697.47	686.47	686.47	3.76	22.56	-58.71	-3.27	1,037.55	1,014.03	986.92	27.11	37.408		
800.00	795.62	784.62	784.62	3.96	26.01	-59.80	-3.27	1,037.55	1,004.14	973.40	30.74	32.662		
900.00	893.16	882.16	882.16	4.20	29.44	-60.97	-3.27	1,037.55	993.05	958.64	34.41	28.860		
1,000.00	990.62	979.62	979.62	4.49	32.87	-62.09	-3.27	1,037.55	982.15	944.04	38.11	25.772		
1,100.00	1,088.07	1,077.07	1,077.07	4.80	36.31	-63.23	-3.27	1,037.55	971.64	929.79	41.84	23.222		
1,200.00	1,185.52	1,174.52	1,174.52	5.13	39.75	-64.40	-3.27	1,037.55	961.53	915.93	45.60	21.086		
1,300.00	1,282.97	1,271.97	1,271.97	5.48	43.19	-65.59	-3.27	1,037.55	951.85	902.47	49.38	19.274		
1,400.00	1,380.43	1,369.43	1,369.43	5.85	46.64	-66.81	-3.27	1,037.55	942.60	889.42	53.19	17.722		
1,500.00	1,477.88	1,466.88	1,466.88	6.23	50.08	-68.04	-3.27	1,037.55	933.80	876.80	57.01	16.381		
1,600.00	1,575.33	1,564.33	1,564.33	6.62	53.53	-69.30	-3.27	1,037.55	925.46	864.62	60.84	15.211		
1,700.00	1,672.79	1,661.79	1,661.79	7.02	56.97	-70.58	-3.27	1,037.55	917.59	852.91	64.69	14.185		
1,800.00	1,770.24	1,759.24	1,759.24	7.42	60.42	-71.89	-3.27	1,037.55	910.21	841.67	68.54	13.279		
1,900.00	1,867.69	1,856.69	1,856.69	7.85	63.87	-73.21	-3.27	1,037.55	903.32	831.31	72.02	12.543		
2,000.00	1,965.14	1,954.14	1,954.14	7.70	67.32	-74.55	-3.27	1,037.55	896.95	821.41	75.53	11.875		
2,100.00	2,062.60	2,051.60	2,051.60	7.78	70.77	-75.90	-3.27	1,037.55	891.09	812.02	79.07	11.270		
2,200.00	2,160.05	2,149.05	2,149.05	7.87	74.22	-77.28	-3.27	1,037.55	885.75	803.13	82.62	10.721		
2,300.00	2,257.50	2,246.50	2,246.50	7.98	77.67	-78.66	-3.27	1,037.55	880.96	794.77	86.19	10.221		
2,400.00	2,354.95	2,343.95	2,343.95	8.11	81.12	-80.06	-3.27	1,037.55	876.72	786.94	89.78	9.765		
2,500.00	2,452.41	2,441.41	2,441.41	8.25	84.57	-81.48	-3.27	1,037.55	873.03	779.65	93.38	9.349		
2,600.00	2,549.86	2,538.86	2,538.86	8.41	88.02	-82.90	-3.27	1,037.55	869.91	772.90	97.00	8.968		
2,700.00	2,647.31	2,636.31	2,636.31	8.59	91.47	-84.34	-3.27	1,037.55	867.35	766.71	100.64	8.619		
2,800.00	2,744.76	2,733.76	2,733.76	8.78	94.92	-85.78	-3.27	1,037.55	865.37	761.09	104.28	8.298		
2,900.00	2,842.22	2,831.22	2,831.22	8.98	98.37	-87.22	-3.27	1,037.55	863.96	756.02	107.94	8.004		
3,000.00	2,939.67	2,928.67	2,928.67	9.20	101.82	-88.67	-3.27	1,037.55	863.14	751.53	111.60	7.734		
3,091.55	3,028.88	3,017.88	3,017.88	9.41	104.98	-90.00	-3.27	1,037.55	862.89	747.92	114.97	7.505 CC		
3,100.00	3,037.12	3,026.12	3,026.12	9.43	105.27	-90.12	-3.27	1,037.55	862.89	747.62	115.28	7.485		
3,200.00	3,134.58	3,123.58	3,123.58	9.66	108.72	-91.57	-3.27	1,037.55	863.23	744.27	118.96	7.256		
3,300.00	3,232.03	3,221.03	3,221.03	9.91	112.17	-93.02	-3.27	1,037.55	864.16	741.50	122.65	7.046		
3,400.00	3,329.48	3,318.48	3,318.48	10.17	115.63	-94.47	-3.27	1,037.55	865.66	739.31	126.35	6.851		
3,500.00	3,426.93	3,415.93	3,415.93	10.43	119.08	-95.91	-3.27	1,037.55	867.74	737.69	130.05	6.672		
3,600.00	3,524.39	3,513.39	3,513.39	10.71	122.53	-97.34	-3.27	1,037.55	870.39	736.63	133.76	6.507		
3,700.00	3,621.84	3,610.84	3,610.84	10.99	125.98	-98.76	-3.27	1,037.55	873.62	736.14	137.47	6.355 ES		
3,800.00	3,719.29	3,708.29	3,708.29	11.27	129.43	-100.17	-3.27	1,037.55	877.40	736.21	141.19	6.214		
3,900.00	3,816.74	3,805.74	3,805.74	11.57	132.89	-101.57	-3.27	1,037.55	881.74	736.83	144.90	6.085		
4,000.00	3,914.20	3,903.20	3,903.20	11.87	136.34	-102.96	-3.27	1,037.55	886.62	737.99	148.62	5.965		
4,100.00	4,011.65	4,000.65	4,000.65	12.17	139.79	-104.33	-3.27	1,037.55	892.04	739.69	152.35	5.855		
4,200.00	4,109.10	4,101.90	4,098.10	12.48	143.38	-105.68	-3.27	1,037.55	897.99	741.78	156.20	5.749		
4,300.00	4,206.56	4,204.44	4,195.56	12.79	147.01	-107.02	-3.27	1,037.55	904.45	744.34	160.11	5.649		
4,400.00	4,304.01	4,306.99	4,293.01	13.11	150.64	-108.34	-3.27	1,037.55	911.42	747.41	164.02	5.557		
4,500.00	4,401.46	4,409.54	4,390.46	13.43	154.27	-109.63	-3.27	1,037.55	918.89	750.97	167.92	5.472		
4,600.00	4,498.91	4,487.91	4,487.91	13.76	157.05	-110.91	-3.27	1,037.55	926.84	755.86	170.98	5.421		
4,700.00	4,596.37	4,585.37	4,585.37	14.09	160.50	-112.17	-3.27	1,037.55	935.26	760.55	174.70	5.353		
4,800.00	4,693.82	4,682.82	4,682.82	14.42	163.95	-113.40	-3.27	1,037.55	944.14	765.70	178.43	5.291		
4,900.00	4,791.27	4,780.27	4,780.27	14.75	167.41	-114.61	-3.27	1,037.55	953.46	771.30	182.16	5.234		
5,000.00	4,888.72	4,877.72	4,877.72	15.09	170.86	-115.80	-3.27	1,037.55	963.21	777.32	185.89	5.182		



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>		5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-21D (Need Directional Surveys)										<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b>		100-SRC Energy_2" CONE_2.448										<b>Offset Well Error:</b>	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	4,986.18	4,975.18	4,975.18	15.43	174.31	-116.96	-3.27	1,037.55	973.38	783.76	189.62	5.133	
5,200.00	5,083.63	5,072.63	5,072.63	15.78	177.76	-118.10	-3.27	1,037.55	983.96	790.61	193.35	5.089	
5,300.00	5,181.08	5,170.08	5,170.08	16.12	181.22	-119.22	-3.27	1,037.55	994.94	797.86	197.08	5.048	
5,400.00	5,278.53	5,267.53	5,267.53	16.47	184.67	-120.31	-3.27	1,037.55	1,006.29	805.48	200.81	5.011	
5,500.00	5,375.99	5,364.99	5,364.99	16.82	188.12	-121.38	-3.27	1,037.55	1,018.01	813.47	204.54	4.977	
5,600.00	5,473.44	5,462.44	5,462.44	17.17	191.57	-122.43	-3.27	1,037.55	1,030.08	821.81	208.27	4.946	
5,700.00	5,570.89	5,559.89	5,559.89	17.52	195.03	-123.45	-3.27	1,037.55	1,042.50	830.50	212.00	4.917	
5,800.00	5,668.35	5,657.35	5,657.35	17.88	198.48	-124.45	-3.27	1,037.55	1,055.25	839.52	215.73	4.891	
5,900.00	5,765.80	5,754.80	5,754.80	18.23	201.93	-125.43	-3.27	1,037.55	1,068.32	848.85	219.46	4.868	
6,000.00	5,863.25	5,852.25	5,852.25	18.59	205.38	-126.38	-3.27	1,037.55	1,081.69	858.49	223.20	4.846	
6,100.00	5,960.70	5,949.70	5,949.70	18.95	208.84	-127.31	-3.27	1,037.55	1,095.36	868.43	226.93	4.827	
6,200.00	6,058.16	6,047.16	6,047.16	19.31	212.29	-128.21	-3.27	1,037.55	1,109.32	878.65	230.66	4.809	
6,300.00	6,155.61	6,144.61	6,144.61	19.67	215.74	-129.10	-3.27	1,037.55	1,123.54	889.15	234.40	4.793	
6,400.00	6,253.06	6,242.06	6,242.06	20.03	219.19	-129.96	-3.27	1,037.55	1,138.04	899.91	238.13	4.779	
6,500.00	6,350.51	6,339.51	6,339.51	20.40	222.65	-130.80	-3.27	1,037.55	1,152.79	910.92	241.87	4.766	
6,600.00	6,447.97	6,436.97	6,436.97	20.76	226.10	-131.63	-3.27	1,037.55	1,167.78	922.18	245.60	4.755	
6,700.00	6,545.82	6,534.82	6,534.82	21.04	229.57	-166.92	-3.27	1,037.55	1,184.32	935.01	249.30	4.751 SF	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-27D (Need Directional Surveys)		Offset Site Error:		0.00 usft
Survey Program:		100-SRC Energy_2" CONE_2.448											Offset Well Error:		3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.00	0.00	0.00	0.00	3.28	3.28	90.02	-0.34	1,086.03	1,086.08							
100.00	100.00	89.00	89.00	3.28	3.56	90.02	-0.34	1,086.03	1,086.03	1,078.40	7.63	142.343				
200.00	200.00	189.00	189.00	3.31	5.73	90.02	-0.34	1,086.03	1,086.03	1,076.20	9.82	110.549				
300.00	299.98	288.98	288.98	3.35	8.87	-56.52	-0.34	1,086.03	1,085.06	1,072.06	13.00	83.447				
400.00	399.84	388.84	388.84	3.41	12.22	-56.80	-0.34	1,086.03	1,082.18	1,065.76	16.42	65.909				
500.00	499.45	488.45	488.45	3.49	15.65	-57.27	-0.34	1,086.03	1,077.43	1,057.49	19.93	54.051				
600.00	598.70	587.70	587.70	3.61	19.11	-57.93	-0.34	1,086.03	1,070.86	1,047.36	23.50	45.566				
700.00	697.47	686.47	686.47	3.76	22.56	-58.78	-0.34	1,086.03	1,062.58	1,035.47	27.11	39.199				
800.00	795.62	784.62	784.62	3.96	26.01	-59.83	-0.34	1,086.03	1,052.70	1,021.96	30.74	34.242				
900.00	893.16	882.16	882.16	4.20	29.44	-60.95	-0.34	1,086.03	1,041.62	1,007.21	34.41	30.272				
1,000.00	990.62	979.62	979.62	4.49	32.87	-62.01	-0.34	1,086.03	1,030.70	992.59	38.11	27.047				
1,100.00	1,088.07	1,077.07	1,077.07	4.80	36.31	-63.10	-0.34	1,086.03	1,020.15	978.31	41.84	24.382				
1,200.00	1,185.52	1,174.52	1,174.52	5.13	39.75	-64.22	-0.34	1,086.03	1,009.99	964.39	45.60	22.149				
1,300.00	1,282.97	1,271.97	1,271.97	5.48	43.19	-65.35	-0.34	1,086.03	1,000.23	950.85	49.38	20.255				
1,400.00	1,380.43	1,369.43	1,369.43	5.85	46.64	-66.50	-0.34	1,086.03	990.88	937.70	53.18	18.631				
1,500.00	1,477.88	1,466.88	1,466.88	6.23	50.08	-67.68	-0.34	1,086.03	981.96	924.96	57.00	17.226				
1,600.00	1,575.33	1,564.33	1,564.33	6.62	53.53	-68.87	-0.34	1,086.03	973.47	912.63	60.84	16.001				
1,700.00	1,672.79	1,661.79	1,661.79	7.02	56.97	-70.08	-0.34	1,086.03	965.43	900.75	64.68	14.926				
1,800.00	1,770.24	1,759.24	1,759.24	7.42	60.42	-71.32	-0.34	1,086.03	957.84	889.31	68.54	13.975				
1,900.00	1,867.69	1,856.69	1,856.69	7.65	63.87	-72.57	-0.34	1,086.03	950.73	878.72	72.01	13.202				
2,000.00	1,965.14	1,954.14	1,954.14	7.70	67.32	-73.83	-0.34	1,086.03	944.09	868.56	75.53	12.500				
2,100.00	2,062.60	2,051.60	2,051.60	7.78	70.77	-75.12	-0.34	1,086.03	937.94	858.88	79.06	11.864				
2,200.00	2,160.05	2,149.05	2,149.05	7.87	74.22	-76.42	-0.34	1,086.03	932.29	849.68	82.61	11.285				
2,300.00	2,257.50	2,246.50	2,246.50	7.98	77.67	-77.73	-0.34	1,086.03	927.15	840.97	86.18	10.758				
2,400.00	2,354.95	2,343.95	2,343.95	8.11	81.12	-79.06	-0.34	1,086.03	922.53	832.76	89.77	10.276				
2,500.00	2,452.41	2,441.41	2,441.41	8.25	84.57	-80.40	-0.34	1,086.03	918.43	825.05	93.38	9.836				
2,600.00	2,549.86	2,538.86	2,538.86	8.41	88.02	-81.75	-0.34	1,086.03	914.86	817.87	97.00	9.432				
2,700.00	2,647.31	2,636.31	2,636.31	8.59	91.47	-83.11	-0.34	1,086.03	911.83	811.20	100.63	9.061				
2,800.00	2,744.76	2,733.76	2,733.76	8.78	94.92	-84.48	-0.34	1,086.03	909.35	805.07	104.28	8.720				
2,900.00	2,842.22	2,831.22	2,831.22	8.98	98.37	-85.85	-0.34	1,086.03	907.41	799.47	107.93	8.407				
3,000.00	2,939.67	2,928.67	2,928.67	9.20	101.82	-87.23	-0.34	1,086.03	906.02	794.42	111.60	8.118				
3,100.00	3,037.12	3,026.12	3,026.12	9.43	105.27	-88.61	-0.34	1,086.03	905.19	789.91	115.28	7.852				
3,200.00	3,134.58	3,123.58	3,123.58	9.66	108.72	-90.00	-0.34	1,086.03	904.91	785.94	118.97	7.606				
3,200.16	3,134.73	3,123.73	3,123.73	9.66	108.73	-90.00	-0.34	1,086.03	904.91	785.93	118.97	7.606 CC				
3,300.00	3,232.03	3,221.03	3,221.03	9.91	112.17	-91.38	-0.34	1,086.03	905.18	782.52	122.66	7.380				
3,400.00	3,329.48	3,318.48	3,318.48	10.17	115.63	-92.76	-0.34	1,086.03	906.02	779.66	126.36	7.170				
3,500.00	3,426.93	3,415.93	3,415.93	10.43	119.08	-94.14	-0.34	1,086.03	907.40	777.33	130.07	6.976				
3,600.00	3,524.39	3,513.39	3,513.39	10.71	122.53	-95.52	-0.34	1,086.03	909.34	775.56	133.78	6.797				
3,700.00	3,621.84	3,610.84	3,610.84	10.99	125.98	-96.88	-0.34	1,086.03	911.83	774.33	137.50	6.632				
3,800.00	3,719.29	3,708.29	3,708.29	11.27	129.43	-98.24	-0.34	1,086.03	914.85	773.64	141.22	6.478				
3,900.00	3,816.74	3,805.74	3,805.74	11.57	132.89	-99.59	-0.34	1,086.03	918.42	773.48	144.94	6.337 ES				
4,000.00	3,914.20	3,903.20	3,903.20	11.87	136.34	-100.93	-0.34	1,086.03	922.52	773.85	148.66	6.205				
4,100.00	4,011.65	4,000.65	4,000.65	12.17	139.79	-102.26	-0.34	1,086.03	927.14	774.75	152.39	6.084				
4,200.00	4,109.10	4,101.90	4,098.10	12.48	143.38	-103.58	-0.34	1,086.03	932.28	776.02	156.25	5.966				
4,300.00	4,206.56	4,204.44	4,195.56	12.79	147.01	-104.88	-0.34	1,086.03	937.92	777.76	160.16	5.856				
4,400.00	4,304.01	4,306.99	4,293.01	13.11	150.64	-106.16	-0.34	1,086.03	944.07	779.99	164.08	5.754				
4,500.00	4,401.46	4,409.54	4,390.46	13.43	154.27	-107.43	-0.34	1,086.03	950.71	782.72	167.99	5.659				
4,600.00	4,498.91	4,487.91	4,487.91	13.76	157.05	-108.68	-0.34	1,086.03	957.82	786.77	171.05	5.600				
4,700.00	4,596.37	4,585.37	4,585.37	14.09	160.50	-109.91	-0.34	1,086.03	965.40	790.62	174.78	5.524				
4,800.00	4,693.82	4,682.82	4,682.82	14.42	163.95	-111.13	-0.34	1,086.03	973.44	794.93	178.51	5.453				
4,900.00	4,791.27	4,780.27	4,780.27	14.75	167.41	-112.32	-0.34	1,086.03	981.93	799.68	182.25	5.388				
5,000.00	4,888.72	4,877.72	4,877.72	15.09	170.86	-113.49	-0.34	1,086.03	990.85	804.87	185.98	5.328				

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-27D (Need Directional Surveys)												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												<b>Offset Well Error:</b>	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	4,986.18	4,975.18	4,975.18	15.43	174.31	-114.65	-0.34	1,086.03	1,000.20	810.48	189.72	5.272	
5,200.00	5,083.63	5,072.63	5,072.63	15.78	177.76	-115.78	-0.34	1,086.03	1,009.96	816.51	193.45	5.221	
5,300.00	5,181.08	5,170.08	5,170.08	16.12	181.22	-116.89	-0.34	1,086.03	1,020.12	822.93	197.19	5.173	
5,400.00	5,278.53	5,267.53	5,267.53	16.47	184.67	-117.98	-0.34	1,086.03	1,030.66	829.74	200.92	5.130	
5,500.00	5,375.99	5,364.99	5,364.99	16.82	188.12	-119.05	-0.34	1,086.03	1,041.58	836.93	204.65	5.089	
5,600.00	5,473.44	5,462.44	5,462.44	17.17	191.57	-120.10	-0.34	1,086.03	1,052.87	844.48	208.39	5.052	
5,700.00	5,570.89	5,559.89	5,559.89	17.52	195.03	-121.12	-0.34	1,086.03	1,064.51	852.38	212.12	5.018	
5,800.00	5,668.35	5,657.35	5,657.35	17.88	198.48	-122.13	-0.34	1,086.03	1,076.49	860.63	215.86	4.987	
5,900.00	5,765.80	5,754.80	5,754.80	18.23	201.93	-123.11	-0.34	1,086.03	1,088.80	869.21	219.59	4.958	
6,000.00	5,863.25	5,852.25	5,852.25	18.59	205.38	-124.07	-0.34	1,086.03	1,101.43	878.10	223.33	4.932	
6,100.00	5,960.70	5,949.70	5,949.70	18.95	208.84	-125.01	-0.34	1,086.03	1,114.37	887.30	227.06	4.908	
6,200.00	6,058.16	6,047.16	6,047.16	19.31	212.29	-125.92	-0.34	1,086.03	1,127.60	896.80	230.80	4.886	
6,300.00	6,155.61	6,144.61	6,144.61	19.67	215.74	-126.82	-0.34	1,086.03	1,141.13	906.59	234.54	4.865	
6,400.00	6,253.06	6,242.06	6,242.06	20.03	219.19	-127.70	-0.34	1,086.03	1,154.93	916.65	238.27	4.847	
6,500.00	6,350.51	6,339.51	6,339.51	20.40	222.65	-128.55	-0.34	1,086.03	1,168.99	926.98	242.01	4.830	
6,600.00	6,447.97	6,436.97	6,436.97	20.76	226.10	-129.39	-0.34	1,086.03	1,183.32	937.57	245.75	4.815	
6,700.00	6,545.82	6,534.82	6,534.82	21.04	229.57	-164.67	-0.34	1,086.03	1,199.39	949.95	249.45	4.808 SF	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL 29-3H6 - Noble SI Well - No Surv												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	-1.00	3.28	3.28	-96.40	-19.67	-175.25	176.35				
100.00	100.00	101.00	99.00	3.28	3.74	-96.40	-19.67	-175.25	176.35	168.53	7.82	22.553	
200.00	200.00	201.00	199.00	3.31	6.28	-96.40	-19.67	-175.25	176.35	165.97	10.37	17.001 CC	
300.00	299.98	301.02	298.98	3.35	9.48	117.63	-19.67	-175.25	177.15	163.53	13.62	13.010	
400.00	399.84	401.16	398.84	3.41	12.87	119.07	-19.67	-175.25	179.64	162.58	17.06	10.528 ES	
500.00	499.45	501.55	498.45	3.49	16.33	121.36	-19.67	-175.25	184.04	163.43	20.61	8.928	
600.00	598.70	602.30	597.70	3.61	19.84	124.36	-19.67	-175.25	190.69	166.45	24.24	7.867	
700.00	697.47	703.53	696.47	3.76	23.39	127.89	-19.67	-175.25	199.99	172.06	27.93	7.160	
800.00	795.62	805.38	794.62	3.96	26.97	131.72	-19.67	-175.25	212.35	180.66	31.69	6.701	
900.00	893.16	907.84	892.16	4.20	30.57	135.72	-19.67	-175.25	227.77	192.27	35.51	6.415	
1,000.00	990.62	989.62	989.62	4.49	33.45	139.35	-19.67	-175.25	244.52	205.91	38.61	6.333	
1,100.00	1,088.07	1,087.07	1,087.07	4.80	36.89	142.51	-19.67	-175.25	262.11	219.83	42.28	6.199	
1,200.00	1,185.52	1,184.52	1,184.52	5.13	40.33	145.28	-19.67	-175.25	280.40	234.43	45.97	6.100	
1,300.00	1,282.97	1,281.97	1,281.97	5.48	43.77	147.71	-19.67	-175.25	299.25	249.59	49.66	6.026	
1,400.00	1,380.43	1,379.43	1,379.43	5.85	47.22	149.85	-19.67	-175.25	318.56	265.20	53.36	5.970	
1,500.00	1,477.88	1,476.88	1,476.88	6.23	50.66	151.75	-19.67	-175.25	338.26	281.19	57.07	5.927	
1,600.00	1,575.33	1,574.33	1,574.33	6.62	54.11	153.44	-19.67	-175.25	358.28	297.49	60.79	5.894	
1,700.00	1,672.79	1,671.79	1,671.79	7.02	57.56	154.95	-19.67	-175.25	378.57	314.06	64.51	5.868	
1,800.00	1,770.24	1,769.24	1,769.24	7.42	61.00	156.31	-19.67	-175.25	399.09	330.85	68.24	5.849 SF	
1,900.00	1,867.69	1,866.69	1,866.69	7.85	64.45	157.53	-19.67	-175.25	419.80	348.18	71.62	5.861	
2,000.00	1,965.14	1,964.14	1,964.14	7.70	67.90	158.64	-19.67	-175.25	440.68	365.60	75.08	5.870	
2,100.00	2,062.60	2,061.60	2,061.60	7.78	71.35	159.65	-19.67	-175.25	461.71	383.15	78.55	5.878	
2,200.00	2,160.05	2,159.05	2,159.05	7.87	74.80	160.58	-19.67	-175.25	482.86	400.81	82.05	5.885	
2,300.00	2,257.50	2,256.50	2,256.50	7.98	78.25	161.42	-19.67	-175.25	504.12	418.56	85.56	5.892	
2,400.00	2,354.95	2,353.95	2,353.95	8.11	81.70	162.20	-19.67	-175.25	525.48	436.39	89.09	5.899	
2,500.00	2,452.41	2,451.41	2,451.41	8.25	85.15	162.92	-19.67	-175.25	546.92	454.29	92.63	5.904	
2,600.00	2,549.86	2,548.86	2,548.86	8.41	88.60	163.58	-19.67	-175.25	568.44	472.25	96.19	5.909	
2,700.00	2,647.31	2,646.31	2,646.31	8.59	92.05	164.19	-19.67	-175.25	590.03	490.27	99.77	5.914	
2,800.00	2,744.76	2,743.76	2,743.76	8.78	95.50	164.76	-19.67	-175.25	611.68	508.33	103.36	5.918	
2,900.00	2,842.22	2,841.22	2,841.22	8.98	98.95	165.30	-19.67	-175.25	633.38	526.43	106.96	5.922	
3,000.00	2,939.67	2,938.67	2,938.67	9.20	102.41	165.79	-19.67	-175.25	655.14	544.56	110.57	5.925	
3,100.00	3,037.12	3,036.12	3,036.12	9.43	105.86	166.26	-19.67	-175.25	676.93	562.73	114.20	5.928	
3,200.00	3,134.58	3,133.58	3,133.58	9.66	109.31	166.70	-19.67	-175.25	698.77	580.93	117.83	5.930	
3,300.00	3,232.03	3,231.03	3,231.03	9.91	112.76	167.10	-19.67	-175.25	720.64	599.16	121.48	5.932	
3,400.00	3,329.48	3,328.48	3,328.48	10.17	116.21	167.49	-19.67	-175.25	742.54	617.41	125.13	5.934	
3,500.00	3,426.93	3,425.93	3,425.93	10.43	119.66	167.85	-19.67	-175.25	764.48	635.68	128.80	5.936	
3,600.00	3,524.39	3,523.39	3,523.39	10.71	123.11	168.20	-19.67	-175.25	786.44	653.97	132.47	5.937	
3,700.00	3,621.84	3,620.84	3,620.84	10.99	126.57	168.52	-19.67	-175.25	808.43	672.28	136.15	5.938	
3,800.00	3,719.29	3,718.29	3,718.29	11.27	130.02	168.83	-19.67	-175.25	830.44	690.61	139.83	5.939	
3,900.00	3,816.74	3,815.74	3,815.74	11.57	133.47	169.12	-19.67	-175.25	852.48	708.95	143.52	5.940	
4,000.00	3,914.20	3,913.20	3,913.20	11.87	136.92	169.40	-19.67	-175.25	874.53	727.31	147.22	5.940	
4,100.00	4,011.65	4,010.65	4,010.65	12.17	140.37	169.66	-19.67	-175.25	896.60	745.68	150.92	5.941	
4,200.00	4,109.10	4,108.10	4,108.10	12.48	143.83	169.91	-19.67	-175.25	918.69	764.06	154.63	5.941	
4,300.00	4,206.56	4,205.56	4,205.56	12.79	147.28	170.15	-19.67	-175.25	940.80	782.46	158.34	5.942	
4,400.00	4,304.01	4,303.01	4,303.01	13.11	150.73	170.38	-19.67	-175.25	962.92	800.86	162.05	5.942	
4,500.00	4,401.46	4,400.46	4,400.46	13.43	154.18	170.60	-19.67	-175.25	985.05	819.28	165.77	5.942	
4,600.00	4,498.91	4,502.09	4,497.91	13.76	157.78	170.81	-19.67	-175.25	1,007.20	837.55	169.64	5.937	
4,700.00	4,596.37	4,604.63	4,595.37	14.09	161.41	171.01	-19.67	-175.25	1,029.36	855.81	173.55	5.931	
4,800.00	4,693.82	4,707.18	4,692.82	14.42	165.05	171.20	-19.67	-175.25	1,051.53	874.07	177.46	5.925	
4,900.00	4,791.27	4,809.73	4,790.27	14.75	168.68	171.38	-19.67	-175.25	1,073.71	892.34	181.37	5.920	
5,000.00	4,888.72	4,887.72	4,887.72	15.09	171.44	171.56	-19.67	-175.25	1,095.90	911.48	184.42	5.942	
5,100.00	4,986.18	4,985.18	4,985.18	15.43	174.90	171.72	-19.67	-175.25	1,118.10	929.94	188.15	5.942	

Hewlett-Packard  
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 5N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RIB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RIB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 5N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design	5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL 29-3H6 - Noble SI Well - No Surv											Offset Site Error:	0.00 usft
Survey Program:	100-SRC Energy_2" CONE_2.448											Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,083.63	5,082.63	5,082.63	15.78	178.35	171.89	-19.67	-175.25	1,140.31	948.41	191.89	5.942	
5,300.00	5,181.08	5,180.08	5,180.08	16.12	181.80	172.04	-19.67	-175.25	1,162.53	966.89	195.64	5.942	
5,400.00	5,278.53	5,277.53	5,277.53	16.47	185.25	172.19	-19.67	-175.25	1,184.75	985.37	199.38	5.942	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL 29-4H6 - XOG PR Well - No Sur												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												<b>Offset Well Error:</b>	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,200.00	7,168.91	7,208.09	7,191.91	23.78	253.65	89.64	-981.36	-1,526.57	1,189.73	913.68	276.05	4.310	
8,300.00	7,169.09	7,207.91	7,192.09	24.84	253.64	89.67	-981.36	-1,526.57	1,093.80	817.44	276.37	3.958	
8,400.00	7,169.27	7,207.73	7,192.27	25.95	253.64	89.70	-981.36	-1,526.57	998.68	721.91	276.77	3.608	
8,500.00	7,169.45	7,207.56	7,192.45	27.12	253.63	89.73	-981.36	-1,526.57	904.61	627.32	277.29	3.262	
8,600.00	7,169.62	7,207.38	7,192.62	28.33	253.62	89.76	-981.36	-1,526.57	811.96	533.98	277.98	2.921	
8,700.00	7,169.80	7,207.20	7,192.80	29.59	253.62	89.79	-981.36	-1,526.57	721.27	442.39	278.88	2.586	
8,800.00	7,169.98	7,207.02	7,192.98	30.88	253.61	89.83	-981.36	-1,526.57	633.39	353.29	280.10	2.261	
8,900.00	7,170.16	7,206.84	7,193.16	32.21	253.61	89.86	-981.36	-1,526.57	549.68	267.92	281.76	1.951	
9,000.00	7,170.34	7,206.66	7,193.34	33.56	253.60	89.89	-981.36	-1,526.57	472.33	188.36	283.97	1.663	
9,100.00	7,170.52	7,206.48	7,193.52	34.94	253.59	89.92	-981.36	-1,526.57	405.04	118.27	286.77	1.412 Level 3	
9,200.00	7,170.70	7,206.30	7,193.70	36.35	253.59	89.95	-981.36	-1,526.57	353.57	63.78	289.79	1.220 Level 2	
9,300.00	7,170.88	7,206.12	7,193.88	37.77	253.58	89.99	-981.36	-1,526.57	325.52	33.60	291.92	1.115 Level 2	
9,345.22	7,170.96	7,206.04	7,193.96	38.43	253.58	90.00	-981.36	-1,526.57	322.37	30.17	292.20	1.103 Level 2, CC, ES, SF	
9,400.00	7,171.06	7,205.94	7,194.06	39.22	253.57	90.02	-981.36	-1,526.57	326.99	35.16	291.83	1.120 Level 2	
9,500.00	7,171.24	7,205.76	7,194.24	40.68	253.57	90.05	-981.36	-1,526.57	357.60	68.01	289.59	1.235 Level 2	
9,600.00	7,171.42	7,205.58	7,194.42	42.15	253.56	90.08	-981.36	-1,526.57	410.89	124.29	286.60	1.434 Level 3	
9,700.00	7,171.60	7,205.40	7,194.60	43.64	253.55	90.11	-981.36	-1,526.57	479.36	195.46	283.90	1.689	
9,800.00	7,171.78	7,205.23	7,194.78	45.14	253.55	90.14	-981.36	-1,526.57	557.44	275.66	281.79	1.978	
9,900.00	7,171.95	7,205.05	7,194.95	46.65	253.54	90.18	-981.36	-1,526.57	641.64	361.41	280.22	2.290	
10,000.00	7,172.13	7,204.87	7,195.13	48.18	253.54	90.21	-981.36	-1,526.57	729.83	450.75	279.08	2.615	
10,100.00	7,172.31	7,204.69	7,195.31	49.71	253.53	90.24	-981.36	-1,526.57	820.73	542.49	278.25	2.950	
10,200.00	7,172.49	7,204.51	7,195.49	51.25	253.52	90.27	-981.36	-1,526.57	913.54	635.91	277.63	3.291	
10,300.00	7,172.67	7,204.33	7,195.67	52.79	253.52	90.30	-981.36	-1,526.57	1,007.73	730.56	277.17	3.636	
10,400.00	7,172.85	7,204.15	7,195.85	54.35	253.51	90.34	-981.36	-1,526.57	1,102.94	826.12	276.82	3.984	
10,500.00	7,173.03	7,203.97	7,196.03	55.91	253.50	90.37	-981.36	-1,526.57	1,198.93	922.37	276.55	4.335	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	7.00	-7.00	3.28	3.28	-171.21	-1,025.13	-158.54	1,037.31				
100.00	100.00	107.00	93.00	3.28	3.85	-171.21	-1,025.13	-158.54	1,037.31	1,029.39	7.93	130.870	
200.00	200.00	207.00	193.00	3.31	6.46	-171.21	-1,025.13	-158.54	1,037.31	1,026.76	10.55	98.279	
300.00	299.98	307.02	292.98	3.35	9.68	42.42	-1,025.13	-158.54	1,036.02	1,022.21	13.82	74.984	
400.00	399.84	407.16	392.84	3.41	13.07	42.67	-1,025.13	-158.54	1,032.16	1,014.89	17.27	59.767	
500.00	499.45	507.55	492.45	3.49	16.54	43.09	-1,025.13	-158.54	1,025.77	1,004.94	20.82	49.263	
600.00	598.70	608.30	591.70	3.61	20.05	43.68	-1,025.13	-158.54	1,016.88	992.43	24.45	41.596	
700.00	697.47	709.53	690.47	3.76	23.60	44.45	-1,025.13	-158.54	1,005.57	977.43	28.14	35.740	
800.00	795.62	788.62	788.62	3.96	26.38	45.41	-1,025.13	-158.54	991.94	960.85	31.09	31.905	
900.00	893.16	886.16	886.16	4.20	29.81	46.43	-1,025.13	-158.54	976.42	941.68	34.74	28.110	
1,000.00	990.62	983.62	983.62	4.49	33.24	47.38	-1,025.13	-158.54	960.89	922.48	38.41	25.018	
1,100.00	1,088.07	1,081.07	1,081.07	4.80	36.68	48.37	-1,025.13	-158.54	945.63	903.52	42.11	22.457	
1,200.00	1,185.52	1,178.52	1,178.52	5.13	40.12	49.39	-1,025.13	-158.54	930.66	884.83	45.83	20.305	
1,300.00	1,282.97	1,275.97	1,275.97	5.48	43.56	50.43	-1,025.13	-158.54	916.00	866.42	49.58	18.474	
1,400.00	1,380.43	1,373.43	1,373.43	5.85	47.01	51.52	-1,025.13	-158.54	901.66	848.31	53.35	16.900	
1,500.00	1,477.88	1,470.88	1,470.88	6.23	50.45	52.63	-1,025.13	-158.54	887.66	830.51	57.14	15.534	
1,600.00	1,575.33	1,568.33	1,568.33	6.62	53.90	53.78	-1,025.13	-158.54	874.00	813.05	60.95	14.341	
1,700.00	1,672.79	1,665.79	1,665.79	7.02	57.35	54.96	-1,025.13	-158.54	860.71	795.95	64.76	13.290	
1,800.00	1,770.24	1,763.24	1,763.24	7.42	60.79	56.18	-1,025.13	-158.54	847.81	779.22	68.60	12.360	
1,900.00	1,867.69	1,860.69	1,860.69	7.85	64.24	57.44	-1,025.13	-158.54	835.31	763.25	72.06	11.591	
2,000.00	1,965.14	1,958.14	1,958.14	7.70	67.69	58.73	-1,025.13	-158.54	823.23	747.65	75.59	10.891	
2,100.00	2,062.60	2,055.60	2,055.60	7.78	71.14	60.06	-1,025.13	-158.54	811.59	732.47	79.13	10.257	
2,200.00	2,160.05	2,153.05	2,153.05	7.87	74.59	61.42	-1,025.13	-158.54	800.42	717.73	82.69	9.680	
2,300.00	2,257.50	2,250.50	2,250.50	7.98	78.04	62.82	-1,025.13	-158.54	789.72	703.45	86.27	9.154	
2,400.00	2,354.95	2,347.95	2,347.95	8.11	81.49	64.26	-1,025.13	-158.54	779.51	689.65	89.87	8.674	
2,500.00	2,452.41	2,445.41	2,445.41	8.25	84.94	65.73	-1,025.13	-158.54	769.83	676.35	93.49	8.235	
2,600.00	2,549.86	2,542.86	2,542.86	8.41	88.39	67.24	-1,025.13	-158.54	760.69	663.57	97.12	7.832	
2,700.00	2,647.31	2,640.31	2,640.31	8.59	91.84	68.78	-1,025.13	-158.54	752.10	651.33	100.77	7.464	
2,800.00	2,744.76	2,737.76	2,737.76	8.78	95.29	70.35	-1,025.13	-158.54	744.09	639.66	104.43	7.125	
2,900.00	2,842.22	2,835.22	2,835.22	8.98	98.74	71.96	-1,025.13	-158.54	736.68	628.56	108.11	6.814	
3,000.00	2,939.67	2,932.67	2,932.67	9.20	102.19	73.59	-1,025.13	-158.54	729.88	618.07	111.80	6.528	
3,100.00	3,037.12	3,030.12	3,030.12	9.43	105.64	75.25	-1,025.13	-158.54	723.71	608.20	115.50	6.266	
3,200.00	3,134.58	3,127.58	3,127.58	9.66	109.10	76.94	-1,025.13	-158.54	718.19	598.97	119.22	6.024	
3,300.00	3,232.03	3,225.03	3,225.03	9.91	112.55	78.66	-1,025.13	-158.54	713.33	590.39	122.94	5.802	
3,400.00	3,329.48	3,322.48	3,322.48	10.17	116.00	80.39	-1,025.13	-158.54	709.15	582.48	126.67	5.598	
3,500.00	3,426.93	3,419.93	3,419.93	10.43	119.45	82.14	-1,025.13	-158.54	705.65	575.25	130.40	5.411	
3,600.00	3,524.39	3,517.39	3,517.39	10.71	122.90	83.90	-1,025.13	-158.54	702.86	568.71	134.15	5.239	
3,700.00	3,621.84	3,614.84	3,614.84	10.99	126.35	85.68	-1,025.13	-158.54	700.77	562.88	137.89	5.082	
3,800.00	3,719.29	3,712.29	3,712.29	11.27	129.81	87.47	-1,025.13	-158.54	699.39	557.75	141.64	4.938	
3,900.00	3,816.74	3,809.74	3,809.74	11.57	133.26	89.26	-1,025.13	-158.54	698.74	553.34	145.40	4.806	
3,941.36	3,857.05	3,850.05	3,850.05	11.69	134.68	90.00	-1,025.13	-158.54	698.68	551.72	146.95	4.754	
4,000.00	3,914.20	3,907.20	3,907.20	11.87	136.71	91.05	-1,025.13	-158.54	698.80	549.64	149.16	4.685	
4,100.00	4,011.65	4,004.65	4,004.65	12.17	140.16	92.84	-1,025.13	-158.54	699.58	546.67	152.91	4.575	
4,200.00	4,109.10	4,102.10	4,102.10	12.48	143.61	94.63	-1,025.13	-158.54	701.08	544.41	156.67	4.475	
4,300.00	4,206.56	4,200.44	4,199.56	12.79	147.10	96.40	-1,025.13	-158.54	703.29	542.83	160.46	4.383	
4,400.00	4,304.01	4,302.99	4,297.01	13.11	150.73	98.16	-1,025.13	-158.54	706.21	541.80	164.40	4.296	
4,500.00	4,401.46	4,405.54	4,394.46	13.43	154.36	99.91	-1,025.13	-158.54	709.82	541.48	168.34	4.217	
4,600.00	4,498.91	4,508.09	4,491.91	13.76	157.99	101.64	-1,025.13	-158.54	714.12	541.84	172.28	4.145	
4,700.00	4,596.37	4,589.37	4,589.37	14.09	160.87	103.35	-1,025.13	-158.54	719.09	543.63	175.46	4.098	
4,800.00	4,693.82	4,686.82	4,686.82	14.42	164.33	105.03	-1,025.13	-158.54	724.73	545.51	179.22	4.044	
4,900.00	4,791.27	4,784.27	4,784.27	14.75	167.78	106.69	-1,025.13	-158.54	731.01	548.03	182.97	3.995	
5,000.00	4,888.72	4,881.72	4,881.72	15.09	171.23	108.32	-1,025.13	-158.54	737.91	551.19	186.72	3.952	



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL 29-6H6 - Noble SI Well - No Surv												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												<b>Offset Well Error:</b>	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	4,986.18	4,979.18	4,979.18	15.43	174.68	109.92	-1,025.13	-158.54	745.43	554.96	190.47	3.914	
5,200.00	5,083.63	5,076.63	5,076.63	15.78	178.14	111.49	-1,025.13	-158.54	753.54	559.32	194.22	3.880	
5,300.00	5,181.08	5,174.08	5,174.08	16.12	181.59	113.03	-1,025.13	-158.54	762.23	564.26	197.97	3.850	
5,400.00	5,278.53	5,271.53	5,271.53	16.47	185.04	114.53	-1,025.13	-158.54	771.47	569.75	201.71	3.825	
5,500.00	5,375.99	5,368.99	5,368.99	16.82	188.49	115.99	-1,025.13	-158.54	781.24	575.78	205.46	3.802	
5,600.00	5,473.44	5,466.44	5,466.44	17.17	191.95	117.42	-1,025.13	-158.54	791.53	582.33	209.20	3.784	
5,700.00	5,570.89	5,563.89	5,563.89	17.52	195.40	118.82	-1,025.13	-158.54	802.31	589.38	212.94	3.768	
5,800.00	5,668.35	5,661.35	5,661.35	17.88	198.85	120.17	-1,025.13	-158.54	813.57	596.89	216.68	3.755	
5,900.00	5,765.80	5,758.80	5,758.80	18.23	202.30	121.50	-1,025.13	-158.54	825.29	604.87	220.42	3.744	
6,000.00	5,863.25	5,856.25	5,856.25	18.59	205.76	122.78	-1,025.13	-158.54	837.44	613.29	224.15	3.736	
6,100.00	5,960.70	5,953.70	5,953.70	18.95	209.21	124.03	-1,025.13	-158.54	850.01	622.12	227.89	3.730	
6,200.00	6,058.16	6,051.16	6,051.16	19.31	212.66	125.24	-1,025.13	-158.54	862.98	631.35	231.63	3.726	
6,300.00	6,155.61	6,148.61	6,148.61	19.67	216.11	126.42	-1,025.13	-158.54	876.33	640.97	235.37	3.723	
6,400.00	6,253.06	6,246.06	6,246.06	20.03	219.57	127.56	-1,025.13	-158.54	890.05	650.95	239.10	3.722	
6,500.00	6,350.51	6,343.51	6,343.51	20.40	223.02	128.67	-1,025.13	-158.54	904.12	661.28	242.84	3.723	
6,600.00	6,447.97	6,440.97	6,440.97	20.76	226.47	129.75	-1,025.13	-158.54	918.51	671.94	246.57	3.725	
6,700.00	6,545.82	6,538.82	6,538.82	21.04	229.94	130.82	-1,025.13	-158.54	932.82	682.82	250.25	3.709	
6,800.00	6,643.56	6,636.56	6,636.56	21.24	233.40	131.88	-1,025.13	-158.54	947.05	693.92	253.85	3.636	
6,900.00	6,738.83	6,731.83	6,731.83	21.40	236.78	132.92	-1,025.13	-158.54	961.19	705.24	257.31	3.510	
7,000.00	6,829.27	6,822.27	6,822.27	21.50	239.98	133.94	-1,025.13	-158.54	975.24	716.79	260.56	3.335	
7,100.00	6,912.66	6,905.66	6,905.66	21.56	242.93	134.93	-1,025.13	-158.54	989.19	728.58	263.52	3.119	
7,200.00	6,986.95	6,979.95	6,979.95	21.59	245.57	135.89	-1,025.13	-158.54	1003.04	740.69	266.13	2.868	
7,300.00	7,050.31	7,043.31	7,043.31	21.58	247.81	136.82	-1,025.13	-158.54	1016.79	753.02	268.33	2.590	
7,400.00	7,101.17	7,105.83	7,094.17	21.54	250.03	137.72	-1,025.13	-158.54	1030.34	765.57	270.49	2.289	
7,500.00	7,138.29	7,131.29	7,131.29	21.46	250.93	138.59	-1,025.13	-158.54	1043.69	778.34	271.37	1.987	
7,600.00	7,160.75	7,153.75	7,153.75	21.37	251.72	139.43	-1,025.13	-158.54	1056.84	791.32	272.20	1.684	
7,700.00	7,168.01	7,161.01	7,161.01	21.26	251.98	139.89	-1,025.13	-158.54	1069.79	804.51	272.62	1.399 Level 3	
7,800.00	7,168.19	7,161.19	7,161.19	21.16	251.99	139.93	-1,025.13	-158.54	1082.54	817.90	272.99	1.158 Level 2	
7,900.00	7,168.37	7,161.37	7,161.37	21.19	251.99	139.97	-1,025.13	-158.54	1095.19	831.49	273.60	0.997 Level 1	
7,977.85	7,168.51	7,161.51	7,161.51	21.71	252.00	140.00	-1,025.13	-158.54	1107.74	845.28	274.12	0.953 Level 1, CC, ES, SF	
8,000.00	7,168.55	7,161.55	7,161.55	21.90	252.00	140.01	-1,025.13	-158.54	1120.19	859.36	274.22	0.956 Level 1	
8,100.00	7,168.73	7,161.73	7,161.73	22.80	252.01	140.05	-1,025.13	-158.54	1132.54	873.73	274.40	1.051 Level 2	
8,200.00	7,168.91	7,161.91	7,161.91	23.78	252.01	140.09	-1,025.13	-158.54	1144.79	888.36	274.24	1.251 Level 3	
8,300.00	7,169.09	7,162.09	7,162.09	24.84	252.02	140.13	-1,025.13	-158.54	1156.94	903.24	274.00	1.514	
8,400.00	7,169.27	7,162.27	7,162.27	25.95	252.03	140.17	-1,025.13	-158.54	1168.99	918.37	273.80	1.813	
8,500.00	7,169.45	7,162.45	7,162.45	27.12	252.03	140.21	-1,025.13	-158.54	1180.94	933.74	273.64	2.134	
8,600.00	7,169.62	7,162.62	7,162.62	28.33	252.04	140.24	-1,025.13	-158.54	1192.79	949.36	273.53	2.467	
8,700.00	7,169.80	7,162.80	7,162.80	29.59	252.04	140.28	-1,025.13	-158.54	1204.54	965.22	273.46	2.808	
8,800.00	7,169.98	7,162.98	7,162.98	30.88	252.05	140.32	-1,025.13	-158.54	1216.19	981.32	273.40	3.155	
8,900.00	7,170.16	7,163.16	7,163.16	32.21	252.06	140.36	-1,025.13	-158.54	1227.74	997.66	273.37	3.506	
9,000.00	7,170.34	7,163.34	7,163.34	33.56	252.06	140.40	-1,025.13	-158.54	1239.19	1014.24	273.35	3.860	
9,100.00	7,170.52	7,163.52	7,163.52	34.94	252.07	140.44	-1,025.13	-158.54	1250.54	1031.06	273.33	4.215	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>		5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL J 29-19 - Noble SI Well - Actual										<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b>		100-SRC Energy_NS-GYRO-MS, 7350-SRC Energy_2" CONE_2.448										<b>Offset Well Error:</b>	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	13.79	13.79	3.28	3.28	-116.46	-489.23	-982.97	1,097.99				
100.00	100.00	106.19	106.19	3.28	3.29	-116.46	-489.44	-983.36	1,098.46	1,091.10	7.36	149.263	
200.00	200.00	206.31	206.30	3.31	3.32	-116.47	-489.91	-984.02	1,099.26	1,091.84	7.42	148.238	
300.00	299.98	305.14	305.13	3.35	3.38	97.13	-490.58	-984.63	1,100.34	1,092.82	7.52	146.361	
400.00	399.84	410.66	410.65	3.41	3.47	97.37	-491.34	-985.01	1,101.64	1,093.97	7.67	143.640	
500.00	499.45	507.64	507.63	3.49	3.58	97.74	-492.16	-985.21	1,103.35	1,095.49	7.86	140.325	
600.00	598.70	610.65	610.63	3.61	3.72	98.30	-492.98	-985.34	1,105.51	1,097.40	8.12	136.192	
700.00	697.47	707.29	707.27	3.76	3.87	98.98	-493.83	-985.38	1,108.31	1,099.89	8.42	131.627	
800.00	795.62	806.31	806.28	3.96	4.04	99.83	-494.84	-985.41	1,111.93	1,103.14	8.79	126.519	
900.00	893.16	907.08	907.05	4.20	4.22	100.87	-495.78	-985.28	1,116.23	1,107.01	9.22	121.109	
1,000.00	990.62	1,005.94	1,005.90	4.49	4.41	101.94	-496.59	-985.00	1,120.82	1,111.14	9.68	115.780	
1,100.00	1,088.07	1,104.24	1,104.20	4.80	4.60	103.00	-497.31	-984.66	1,125.72	1,115.54	10.18	110.610	
1,200.00	1,185.52	1,197.47	1,197.42	5.13	4.80	103.99	-498.22	-984.43	1,131.18	1,120.47	10.71	105.665	
1,300.00	1,282.97	1,291.73	1,291.68	5.48	5.03	104.97	-499.34	-984.46	1,137.35	1,126.07	11.27	100.894	
1,400.00	1,380.43	1,388.86	1,388.80	5.85	5.27	105.98	-500.44	-984.70	1,144.06	1,132.19	11.87	96.381	
1,500.00	1,477.88	1,488.47	1,488.40	6.23	5.53	107.00	-501.60	-984.87	1,151.09	1,138.60	12.49	92.149	
1,600.00	1,575.33	1,584.79	1,584.72	6.62	5.78	107.97	-502.83	-984.95	1,158.41	1,145.29	13.12	88.303	
1,700.00	1,672.79	1,681.74	1,681.66	7.02	6.04	108.93	-504.13	-985.12	1,166.20	1,152.44	13.76	84.757	
1,800.00	1,770.24	1,780.12	1,780.03	7.42	6.30	109.91	-505.11	-985.38	1,174.33	1,159.92	14.40	81.527	
1,900.00	1,867.69	1,876.55	1,876.46	7.65	6.55	110.88	-505.51	-985.76	1,182.80	1,168.15	14.65	80.757	
2,000.00	1,965.14	1,972.18	1,972.09	7.70	6.78	111.84	-505.85	-986.27	1,191.76	1,176.85	14.91	79.929	
7,900.00	7,168.37	7,199.88	7,198.93	21.19	18.67	91.06	-545.32	-1,003.07	1,185.28	1,144.80	40.48	29.284	
8,000.00	7,168.55	7,196.81	7,195.85	21.90	18.66	90.83	-545.40	-1,003.18	1,109.78	1,068.71	41.08	27.017	
8,100.00	7,168.73	7,193.75	7,192.80	22.80	18.66	90.59	-545.47	-1,003.29	1,038.43	996.61	41.82	24.833	
8,200.00	7,168.91	7,190.72	7,189.77	23.78	18.66	90.36	-545.54	-1,003.40	972.12	929.42	42.71	22.763	
8,300.00	7,169.09	7,187.71	7,186.76	24.84	18.66	90.13	-545.60	-1,003.51	911.97	868.22	43.75	20.845	
8,400.00	7,169.27	7,184.72	7,183.78	25.95	18.65	89.91	-545.67	-1,003.62	859.27	814.34	44.93	19.124	
8,500.00	7,169.45	7,181.76	7,180.82	27.12	18.65	89.68	-545.73	-1,003.72	815.46	769.25	46.21	17.648	
8,600.00	7,169.62	7,178.82	7,177.88	28.33	18.65	89.46	-545.79	-1,003.83	782.04	734.54	47.50	16.464	
8,700.00	7,169.80	7,175.90	7,174.96	29.59	18.64	89.23	-545.84	-1,003.93	760.38	711.68	48.70	15.614	
8,800.00	7,169.98	7,173.00	7,172.06	30.88	18.64	89.01	-545.90	-1,004.03	751.50	701.80	49.69	15.122	
8,817.21	7,170.01	7,172.50	7,171.57	31.11	18.64	88.97	-545.91	-1,004.05	751.30	701.46	49.84	15.074 CC, ES	
8,900.00	7,170.16	7,170.12	7,169.19	32.21	18.64	88.79	-545.95	-1,004.13	755.84	705.45	50.39	14.999 SF	
9,000.00	7,170.34	7,167.27	7,166.34	33.56	18.64	88.58	-546.00	-1,004.23	773.19	722.44	50.76	15.233	
9,100.00	7,170.52	7,164.43	7,163.50	34.94	18.63	88.36	-546.05	-1,004.33	802.71	751.90	50.81	15.798	
9,200.00	7,170.70	7,161.62	7,160.69	36.35	18.63	88.14	-546.09	-1,004.43	843.11	792.51	50.61	16.660	
9,300.00	7,170.88	7,158.82	7,157.90	37.77	18.63	87.93	-546.14	-1,004.53	892.92	842.70	50.23	17.778	
9,400.00	7,171.06	7,156.05	7,155.13	39.22	18.63	87.72	-546.18	-1,004.62	950.67	900.93	49.74	19.112	
9,500.00	7,171.24	7,153.30	7,152.38	40.68	18.62	87.51	-546.22	-1,004.72	1,014.99	965.78	49.21	20.626	
9,600.00	7,171.42	7,150.56	7,149.64	42.15	18.62	87.30	-546.26	-1,004.81	1,084.73	1,036.06	48.67	22.287	
9,700.00	7,171.60	7,147.85	7,146.93	43.64	18.62	87.10	-546.29	-1,004.90	1,158.89	1,110.74	48.15	24.069	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - UPRC 29-7C - Noble T/A Well - No Surveys													Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE 2.448													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
1,700.00	1,672.79	1,664.79	1,664.79	7.02	57.31	-6.65	-1,138.04	916.95	1,198.81	1,134.76	64.05	18.716		
1,800.00	1,770.24	1,762.24	1,762.24	7.42	60.76	-6.77	-1,138.04	916.95	1,176.53	1,108.75	67.78	17.359		
1,900.00	1,867.69	1,859.69	1,859.69	7.65	64.21	-6.90	-1,138.04	916.95	1,154.26	1,083.08	71.18	16.217		
2,000.00	1,965.14	1,957.14	1,957.14	7.70	67.65	-7.04	-1,138.04	916.95	1,131.99	1,057.34	74.65	15.164		
2,100.00	2,062.60	2,054.60	2,054.60	7.78	71.10	-7.18	-1,138.04	916.95	1,109.72	1,031.59	78.14	14.203		
2,200.00	2,160.05	2,152.05	2,152.05	7.87	74.55	-7.33	-1,138.04	916.95	1,087.47	1,005.82	81.64	13.320		
2,300.00	2,257.50	2,249.50	2,249.50	7.98	78.00	-7.48	-1,138.04	916.95	1,065.22	980.05	85.16	12.508		
2,400.00	2,354.95	2,346.95	2,346.95	8.11	81.45	-7.64	-1,138.04	916.95	1,042.97	954.27	88.70	11.758		
2,500.00	2,452.41	2,444.41	2,444.41	8.25	84.90	-7.81	-1,138.04	916.95	1,020.74	928.48	92.26	11.064		
2,600.00	2,549.86	2,541.86	2,541.86	8.41	88.35	-7.98	-1,138.04	916.95	998.52	902.69	95.83	10.420		
2,700.00	2,647.31	2,639.31	2,639.31	8.59	91.80	-8.17	-1,138.04	916.95	976.30	876.89	99.41	9.821		
2,800.00	2,744.76	2,736.76	2,736.76	8.78	95.25	-8.36	-1,138.04	916.95	954.09	851.09	103.01	9.262		
2,900.00	2,842.22	2,834.22	2,834.22	8.98	98.71	-8.56	-1,138.04	916.95	931.90	825.28	106.62	8.740		
3,000.00	2,939.67	2,931.67	2,931.67	9.20	102.16	-8.77	-1,138.04	916.95	909.72	799.47	110.24	8.252		
3,100.00	3,037.12	3,029.12	3,029.12	9.43	105.61	-8.99	-1,138.04	916.95	887.54	773.67	113.88	7.794		
3,200.00	3,134.58	3,126.58	3,126.58	9.66	109.06	-9.22	-1,138.04	916.95	865.39	747.86	117.52	7.364		
3,300.00	3,232.03	3,224.03	3,224.03	9.91	112.51	-9.47	-1,138.04	916.95	843.24	722.07	121.18	6.959		
3,400.00	3,329.48	3,321.48	3,321.48	10.17	115.96	-9.72	-1,138.04	916.95	821.11	696.27	124.84	6.577		
3,500.00	3,426.93	3,418.93	3,418.93	10.43	119.41	-9.99	-1,138.04	916.95	799.00	670.49	128.51	6.217		
3,600.00	3,524.39	3,516.39	3,516.39	10.71	122.87	-10.28	-1,138.04	916.95	776.91	644.71	132.19	5.877		
3,700.00	3,621.84	3,613.84	3,613.84	10.99	126.32	-10.58	-1,138.04	916.95	754.83	618.95	135.88	5.555		
3,800.00	3,719.29	3,711.29	3,711.29	11.27	129.77	-10.91	-1,138.04	916.95	732.78	593.20	139.58	5.250		
3,900.00	3,816.74	3,808.74	3,808.74	11.57	133.22	-11.25	-1,138.04	916.95	710.75	567.47	143.28	4.961		
4,000.00	3,914.20	3,906.20	3,906.20	11.87	136.67	-11.61	-1,138.04	916.95	688.74	541.75	146.99	4.686		
4,100.00	4,011.65	4,003.65	4,003.65	12.17	140.13	-12.00	-1,138.04	916.95	666.77	516.06	150.71	4.424		
4,200.00	4,109.10	4,101.10	4,101.10	12.48	143.58	-12.41	-1,138.04	916.95	644.82	490.40	154.43	4.176		
4,300.00	4,206.56	4,201.44	4,198.56	12.79	147.13	-12.86	-1,138.04	916.95	622.91	464.66	158.26	3.936		
4,400.00	4,304.01	4,303.99	4,296.01	13.11	150.76	-13.33	-1,138.04	916.95	601.04	438.87	162.17	3.706		
4,500.00	4,401.46	4,406.54	4,393.46	13.43	154.40	-13.84	-1,138.04	916.95	579.21	413.12	166.09	3.487		
4,600.00	4,498.91	4,509.09	4,490.91	13.76	158.03	-14.39	-1,138.04	916.95	557.43	387.41	170.02	3.279		
4,700.00	4,596.37	4,588.37	4,588.37	14.09	160.84	-14.99	-1,138.04	916.95	535.70	362.58	173.12	3.094		
4,800.00	4,693.82	4,685.82	4,685.82	14.42	164.29	-15.63	-1,138.04	916.95	514.03	337.15	176.88	2.906		
4,900.00	4,791.27	4,783.27	4,783.27	14.75	167.74	-16.33	-1,138.04	916.95	492.43	311.79	180.64	2.726		
5,000.00	4,888.72	4,880.72	4,880.72	15.09	171.20	-17.10	-1,138.04	916.95	470.90	286.50	184.41	2.554		
5,100.00	4,986.18	4,978.18	4,978.18	15.43	174.65	-17.94	-1,138.04	916.95	449.47	261.28	188.18	2.388		
5,200.00	5,083.63	5,075.63	5,075.63	15.78	178.10	-18.86	-1,138.04	916.95	428.13	236.17	191.97	2.230		
5,300.00	5,181.08	5,173.08	5,173.08	16.12	181.55	-19.88	-1,138.04	916.95	406.91	211.16	195.76	2.079		
5,400.00	5,278.53	5,270.53	5,270.53	16.47	185.01	-21.01	-1,138.04	916.95	385.83	186.28	199.56	1.933		
5,500.00	5,375.99	5,367.99	5,367.99	16.82	188.46	-22.27	-1,138.04	916.95	364.92	161.54	203.37	1.794		
5,600.00	5,473.44	5,465.44	5,465.44	17.17	191.91	-23.68	-1,138.04	916.95	344.19	136.99	207.19	1.661		
5,700.00	5,570.89	5,562.89	5,562.89	17.52	195.36	-25.26	-1,138.04	916.95	323.68	112.65	211.03	1.534		
5,800.00	5,668.35	5,660.35	5,660.35	17.88	198.82	-27.06	-1,138.04	916.95	303.45	88.56	214.89	1.412 Level 3		
5,900.00	5,765.80	5,757.80	5,757.80	18.23	202.27	-29.11	-1,138.04	916.95	283.55	64.78	218.77	1.296 Level 3		
6,000.00	5,863.25	5,855.25	5,855.25	18.59	205.72	-31.46	-1,138.04	916.95	264.06	41.38	222.67	1.186 Level 2		
6,100.00	5,960.70	5,952.70	5,952.70	18.95	209.17	-34.18	-1,138.04	916.95	245.06	18.46	226.61	1.081 Level 2		
6,200.00	6,058.16	6,050.16	6,050.16	19.31	212.63	-37.33	-1,138.04	916.95	226.70	-3.88	230.58	0.983 Level 1		
6,300.00	6,155.61	6,147.61	6,147.61	19.67	216.08	-41.02	-1,138.04	916.95	209.13	-25.46	234.59	0.891 Level 1		
6,400.00	6,253.06	6,245.06	6,245.06	20.03	219.53	-45.35	-1,138.04	916.95	192.57	-46.08	238.64	0.807 Level 1		
6,500.00	6,350.51	6,342.51	6,342.51	20.40	222.98	-50.43	-1,138.04	916.95	177.30	-65.45	242.75	0.730 Level 1		
6,600.00	6,447.97	6,439.97	6,439.97	20.76	226.44	-56.39	-1,138.04	916.95	163.69	-83.20	246.89	0.663 Level 1		
6,689.59	6,535.69	6,527.69	6,527.69	21.01	229.54	-92.01	-1,138.04	916.95	158.32	-92.23	250.56	0.632 Level 1		
6,700.00	6,545.82	6,537.82	6,537.82	21.04	229.90	-96.65	-1,138.04	916.95	157.25	-93.73	250.98	0.627 Level 1, CC, ES, SF		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												<b>Offset Well Error:</b>	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
6,800.00	6,643.56	6,635.56	6,635.56	21.24	233.37	-141.33	-1,138.04	916.95	168.25	-86.64	254.89	0.660	Level 1
6,900.00	6,738.83	6,730.83	6,730.83	21.40	236.74	-164.53	-1,138.04	916.95	195.67	-62.87	258.55	0.757	Level 1
7,000.00	6,829.27	6,821.27	6,821.27	21.50	239.94	-176.33	-1,138.04	916.95	237.68	-24.24	261.91	0.907	Level 1
7,100.00	6,912.66	6,904.66	6,904.66	21.56	242.90	176.82	-1,138.04	916.95	292.68	27.73	264.95	1.105	Level 2
7,200.00	6,986.95	6,978.95	6,978.95	21.59	245.53	172.04	-1,138.04	916.95	359.29	91.68	267.61	1.343	Level 3
7,300.00	7,050.31	7,042.31	7,042.31	21.58	247.78	167.66	-1,138.04	916.95	436.04	166.20	269.84	1.616	
7,400.00	7,101.17	7,106.83	7,093.17	21.54	250.06	162.16	-1,138.04	916.95	521.26	249.17	272.09	1.916	
7,500.00	7,138.29	7,130.29	7,130.29	21.46	250.89	152.89	-1,138.04	916.95	613.01	340.14	272.87	2.247	
7,600.00	7,160.75	7,152.75	7,152.75	21.37	251.69	132.66	-1,138.04	916.95	709.17	435.58	273.59	2.592	
7,700.00	7,168.01	7,160.01	7,160.01	21.26	251.95	90.61	-1,138.04	916.95	807.46	533.69	273.76	2.949	
7,800.00	7,168.19	7,160.19	7,160.19	21.16	251.95	90.68	-1,138.04	916.95	906.21	632.51	273.69	3.311	
7,900.00	7,168.37	7,160.37	7,160.37	21.19	251.96	90.76	-1,138.04	916.95	1,005.20	731.57	273.64	3.673	
8,000.00	7,168.55	7,160.55	7,160.55	21.90	251.97	90.83	-1,138.04	916.95	1,104.38	830.79	273.60	4.037	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - UPV 29-2H6 - Noble SI Well - No Surveys													Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE 2.448													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	91.74	-34.22	1,128.66	1,129.43					
100.00	100.00	76.00	76.00	3.28	3.55	91.74	-34.22	1,128.66	1,129.17	1,121.55	7.62	148.187		
200.00	200.00	176.00	176.00	3.31	5.54	91.74	-34.22	1,128.66	1,129.17	1,119.54	9.64	117.174		
300.00	299.98	275.98	275.98	3.35	8.65	-54.80	-34.22	1,128.66	1,128.17	1,115.38	12.79	88.211		
400.00	399.84	375.84	375.84	3.41	12.00	-55.07	-34.22	1,128.66	1,125.16	1,108.96	16.20	69.464		
500.00	499.45	475.45	475.45	3.49	15.43	-55.52	-34.22	1,128.66	1,120.18	1,100.47	19.71	56.838		
600.00	598.70	574.70	574.70	3.61	18.88	-56.14	-34.22	1,128.66	1,113.30	1,090.03	23.27	47.833		
700.00	697.47	673.47	673.47	3.76	22.33	-56.96	-34.22	1,128.66	1,104.60	1,077.73	26.88	41.096		
800.00	795.62	771.62	771.62	3.96	25.78	-57.96	-34.22	1,128.66	1,094.20	1,063.69	30.51	35.860		
900.00	893.16	869.16	869.16	4.20	29.21	-59.03	-34.22	1,128.66	1,082.49	1,048.31	34.18	31.674		
1,000.00	990.62	966.62	966.62	4.49	32.64	-60.04	-34.22	1,128.66	1,070.90	1,033.03	37.87	28.276		
1,100.00	1,088.07	1,064.07	1,064.07	4.80	36.08	-61.07	-34.22	1,128.66	1,059.66	1,018.05	41.60	25.472		
1,200.00	1,185.52	1,161.52	1,161.52	5.13	39.52	-62.12	-34.22	1,128.66	1,048.77	1,003.42	45.36	23.122		
1,300.00	1,282.97	1,258.97	1,258.97	5.48	42.96	-63.19	-34.22	1,128.66	1,038.26	989.12	49.14	21.130		
1,400.00	1,380.43	1,356.43	1,356.43	5.85	46.41	-64.28	-34.22	1,128.66	1,028.13	975.19	52.94	19.422		
1,500.00	1,477.88	1,453.88	1,453.88	6.23	49.85	-65.40	-34.22	1,128.66	1,018.39	961.64	56.75	17.945		
1,600.00	1,575.33	1,551.33	1,551.33	6.62	53.30	-66.53	-34.22	1,128.66	1,009.06	948.48	60.58	16.656		
1,700.00	1,672.79	1,648.79	1,648.79	7.02	56.74	-67.68	-34.22	1,128.66	1,000.14	935.72	64.42	15.524		
1,800.00	1,770.24	1,746.24	1,746.24	7.42	60.19	-68.86	-34.22	1,128.66	991.65	923.37	68.28	14.524		
1,900.00	1,867.69	1,843.69	1,843.69	7.85	63.64	-70.05	-34.22	1,128.66	983.60	911.85	71.75	13.708		
2,000.00	1,965.14	1,941.14	1,941.14	7.70	67.09	-71.26	-34.22	1,128.66	976.00	900.73	75.27	12.967		
2,100.00	2,062.60	2,038.60	2,038.60	7.78	70.54	-72.48	-34.22	1,128.66	968.85	890.05	78.80	12.295		
2,200.00	2,160.05	2,136.05	2,136.05	7.87	73.99	-73.73	-34.22	1,128.66	962.18	879.82	82.36	11.683		
2,300.00	2,257.50	2,233.50	2,233.50	7.98	77.44	-74.99	-34.22	1,128.66	955.98	870.06	85.93	11.125		
2,400.00	2,354.95	2,330.95	2,330.95	8.11	80.89	-76.26	-34.22	1,128.66	950.28	860.76	89.52	10.615		
2,500.00	2,452.41	2,428.41	2,428.41	8.25	84.34	-77.55	-34.22	1,128.66	945.07	851.95	93.13	10.148		
2,600.00	2,549.86	2,525.86	2,525.86	8.41	87.79	-78.85	-34.22	1,128.66	940.37	843.62	96.75	9.720		
2,700.00	2,647.31	2,623.31	2,623.31	8.59	91.24	-80.17	-34.22	1,128.66	936.18	835.80	100.38	9.326		
2,800.00	2,744.76	2,720.76	2,720.76	8.78	94.69	-81.49	-34.22	1,128.66	932.52	828.48	104.03	8.964		
2,900.00	2,842.22	2,818.22	2,818.22	8.98	98.14	-82.82	-34.22	1,128.66	929.38	821.68	107.69	8.630		
3,000.00	2,939.67	2,915.67	2,915.67	9.20	101.59	-84.16	-34.22	1,128.66	926.77	815.40	111.37	8.322		
3,100.00	3,037.12	3,013.12	3,013.12	9.43	105.04	-85.51	-34.22	1,128.66	924.70	809.65	115.05	8.037		
3,200.00	3,134.58	3,110.58	3,110.58	9.66	108.49	-86.86	-34.22	1,128.66	923.17	804.43	118.74	7.775		
3,300.00	3,232.03	3,208.03	3,208.03	9.91	111.94	-88.22	-34.22	1,128.66	922.18	799.74	122.44	7.532		
3,400.00	3,329.48	3,305.48	3,305.48	10.17	115.40	-89.58	-34.22	1,128.66	921.74	795.60	126.15	7.307		
3,431.08	3,359.77	3,335.77	3,335.77	10.25	116.47	-90.00	-34.22	1,128.66	921.71	794.42	127.30	7.241 CC		
3,500.00	3,426.93	3,402.93	3,402.93	10.43	118.85	-90.94	-34.22	1,128.66	921.84	791.99	129.86	7.099		
3,600.00	3,524.39	3,500.39	3,500.39	10.71	122.30	-92.29	-34.22	1,128.66	922.49	788.92	133.57	6.906		
3,700.00	3,621.84	3,602.16	3,597.84	10.99	125.90	-93.65	-34.22	1,128.66	923.69	786.24	137.45	6.720		
3,800.00	3,719.29	3,704.71	3,695.29	11.27	129.54	-95.00	-34.22	1,128.66	925.42	784.06	141.36	6.547		
3,900.00	3,816.74	3,807.26	3,792.74	11.57	133.17	-96.34	-34.22	1,128.66	927.69	782.43	145.27	6.386		
4,000.00	3,914.20	3,909.80	3,890.20	11.87	136.80	-97.68	-34.22	1,128.66	930.50	781.33	149.18	6.238 ES		
4,100.00	4,011.65	3,987.65	3,987.65	12.17	139.56	-99.01	-34.22	1,128.66	933.84	781.63	152.22	6.135		
4,200.00	4,109.10	4,085.10	4,085.10	12.48	143.01	-100.33	-34.22	1,128.66	937.71	781.75	155.95	6.013		
4,300.00	4,206.56	4,182.56	4,182.56	12.79	146.46	-101.64	-34.22	1,128.66	942.09	782.40	159.69	5.899		
4,400.00	4,304.01	4,280.01	4,280.01	13.11	149.92	-102.94	-34.22	1,128.66	946.98	783.55	163.43	5.794		
4,500.00	4,401.46	4,377.46	4,377.46	13.43	153.37	-104.22	-34.22	1,128.66	952.38	785.21	167.17	5.697		
4,600.00	4,498.91	4,474.91	4,474.91	13.76	156.82	-105.49	-34.22	1,128.66	958.27	787.36	170.91	5.607		
4,700.00	4,596.37	4,572.37	4,572.37	14.09	160.27	-106.75	-34.22	1,128.66	964.65	790.00	174.65	5.523		
4,800.00	4,693.82	4,669.82	4,669.82	14.42	163.72	-107.98	-34.22	1,128.66	971.50	793.11	178.39	5.446		
4,900.00	4,791.27	4,767.27	4,767.27	14.75	167.18	-109.20	-34.22	1,128.66	978.82	796.69	182.13	5.374		
5,000.00	4,888.72	4,864.72	4,864.72	15.09	170.63	-110.41	-34.22	1,128.66	986.59	800.73	185.87	5.308		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - UPV 29-2H6 - Noble SI Well - No Surveys												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												<b>Offset Well Error:</b>	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	4,986.18	4,962.18	4,962.18	15.43	174.08	-111.59	-34.22	1,128.66	994.81	805.21	189.61	5.247	
5,200.00	5,083.63	5,059.63	5,059.63	15.78	177.53	-112.76	-34.22	1,128.66	1,003.46	810.12	193.34	5.190	
5,300.00	5,181.08	5,157.08	5,157.08	16.12	180.99	-113.90	-34.22	1,128.66	1,012.54	815.46	197.08	5.138	
5,400.00	5,278.53	5,254.53	5,254.53	16.47	184.44	-115.03	-34.22	1,128.66	1,022.03	821.21	200.82	5.089	
5,500.00	5,375.99	5,351.99	5,351.99	16.82	187.89	-116.13	-34.22	1,128.66	1,031.92	827.36	204.56	5.045	
5,600.00	5,473.44	5,449.44	5,449.44	17.17	191.34	-117.22	-34.22	1,128.66	1,042.19	833.89	208.30	5.003	
5,700.00	5,570.89	5,546.89	5,546.89	17.52	194.80	-118.28	-34.22	1,128.66	1,052.85	840.81	212.04	4.965	
5,800.00	5,668.35	5,644.35	5,644.35	17.88	198.25	-119.32	-34.22	1,128.66	1,063.87	848.09	215.77	4.930	
5,900.00	5,765.80	5,741.80	5,741.80	18.23	201.70	-120.35	-34.22	1,128.66	1,075.24	855.73	219.51	4.898	
6,000.00	5,863.25	5,839.25	5,839.25	18.59	205.15	-121.35	-34.22	1,128.66	1,086.96	863.71	223.25	4.869	
6,100.00	5,960.70	5,936.70	5,936.70	18.95	208.61	-122.33	-34.22	1,128.66	1,099.01	872.03	226.99	4.842	
6,200.00	6,058.16	6,034.16	6,034.16	19.31	212.06	-123.29	-34.22	1,128.66	1,111.39	880.66	230.72	4.817	
6,300.00	6,155.61	6,131.61	6,131.61	19.67	215.51	-124.23	-34.22	1,128.66	1,124.07	889.61	234.46	4.794	
6,400.00	6,253.06	6,229.06	6,229.06	20.03	218.96	-125.15	-34.22	1,128.66	1,137.06	898.86	238.20	4.774	
6,500.00	6,350.51	6,326.51	6,326.51	20.40	222.42	-126.04	-34.22	1,128.66	1,150.34	908.40	241.94	4.755	
6,600.00	6,447.97	6,423.97	6,423.97	20.76	225.87	-126.92	-34.22	1,128.66	1,163.89	918.22	245.67	4.738	
6,700.00	6,545.82	6,521.82	6,521.82	21.04	229.34	-162.19	-34.22	1,128.66	1,179.43	930.05	249.37	4.730 SF	
6,800.00	6,643.56	6,619.56	6,619.56	21.24	232.80	157.68	-34.22	1,128.66	1,199.99	946.96	253.03	4.743	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1C-27-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7728-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	1.00	3.28	3.28	-47.36	138.80	-150.73	204.90				
100.00	100.00	101.00	101.00	3.28	3.28	-47.36	138.80	-150.73	204.90	197.37	7.53	27.215	
200.00	200.00	201.00	201.00	3.31	3.31	-47.36	138.80	-150.73	204.90	197.32	7.57	27.052	
200.05	200.05	201.05	201.05	3.31	3.31	-47.36	138.80	-150.73	204.90	197.32	7.57	27.052 CC, ES	
300.00	299.98	301.09	301.08	3.35	3.34	166.03	138.06	-151.35	206.55	198.90	7.65	26.991 SF	
400.00	399.84	400.95	400.94	3.41	3.40	166.04	137.19	-152.07	211.58	203.81	7.77	27.224	
500.00	499.45	500.59	500.57	3.49	3.48	166.25	136.33	-152.80	219.99	212.05	7.94	27.718	
600.00	598.70	600.13	599.85	3.61	3.58	166.64	135.46	-153.53	231.78	223.64	8.15	28.454	
700.00	697.47	701.32	698.65	3.76	3.70	167.14	134.60	-154.25	246.96	238.56	8.40	29.398	
800.00	795.62	803.11	796.86	3.96	3.84	167.74	133.75	-154.96	265.52	256.82	8.70	30.528	
900.00	893.16	905.50	894.46	4.20	3.99	168.40	132.90	-155.67	287.01	277.97	9.03	31.767	
1,000.00	990.62	1,007.98	991.97	4.49	4.15	169.03	132.06	-156.38	308.92	299.53	9.39	32.894	
1,100.00	1,088.07	1,089.54	1,089.48	4.80	4.30	169.57	131.21	-157.10	330.86	321.12	9.74	33.971	
1,200.00	1,185.52	1,187.05	1,186.99	5.13	4.47	170.05	130.36	-157.81	352.82	342.69	10.14	34.800	
1,300.00	1,282.97	1,284.57	1,284.50	5.48	4.66	170.47	129.51	-158.52	374.81	364.25	10.56	35.497	
1,400.00	1,380.43	1,382.09	1,382.02	5.85	4.86	170.84	128.67	-159.23	396.81	385.82	11.00	36.081	
1,500.00	1,477.88	1,479.61	1,479.53	6.23	5.06	171.18	127.82	-159.94	418.83	407.38	11.45	36.570	
1,600.00	1,575.33	1,577.13	1,577.04	6.62	5.26	171.48	126.97	-160.65	440.86	428.94	11.92	36.979	
1,700.00	1,672.79	1,674.65	1,674.55	7.02	5.48	171.75	126.12	-161.36	462.90	450.50	12.40	37.320	
1,800.00	1,770.24	1,772.16	1,772.07	7.42	5.70	172.00	125.28	-162.07	484.95	472.05	12.90	37.605	
1,900.00	1,867.69	1,869.68	1,869.58	7.85	5.92	172.23	124.43	-162.78	507.01	494.11	12.89	39.321	
2,000.00	1,965.14	1,967.20	1,967.09	7.70	6.14	172.43	123.58	-163.50	529.07	515.93	13.14	40.267	
2,100.00	2,062.60	2,064.72	2,064.60	7.78	6.37	172.62	122.73	-164.21	551.14	537.73	13.40	41.115	
2,200.00	2,160.05	2,162.24	2,162.11	7.87	6.60	172.80	121.89	-164.92	573.21	559.52	13.69	41.869	
2,300.00	2,257.50	2,259.76	2,259.63	7.98	6.84	172.96	121.04	-165.63	595.29	581.30	14.00	42.535	
2,400.00	2,354.95	2,357.28	2,357.14	8.11	7.08	173.11	120.19	-166.34	617.38	603.06	14.32	43.116	
2,500.00	2,452.41	2,454.79	2,454.65	8.25	7.32	173.25	119.34	-167.05	639.47	624.81	14.66	43.620	
2,600.00	2,549.86	2,552.31	2,552.16	8.41	7.56	173.39	118.50	-167.76	661.56	646.54	15.02	44.052	
2,700.00	2,647.31	2,649.83	2,649.67	8.59	7.80	173.51	117.65	-168.47	683.65	668.26	15.39	44.419	
2,800.00	2,744.76	2,747.35	2,747.19	8.78	8.05	173.62	116.80	-169.18	705.75	689.97	15.78	44.726	
2,900.00	2,842.22	2,844.87	2,844.70	8.98	8.29	173.73	115.95	-169.90	727.85	711.67	16.18	44.980	
3,000.00	2,939.67	2,942.39	2,942.21	9.20	8.54	173.83	115.11	-170.61	749.95	733.36	16.60	45.187	
3,100.00	3,037.12	3,039.91	3,039.72	9.43	8.79	173.93	114.26	-171.32	772.06	755.03	17.02	45.351	
3,200.00	3,134.58	3,137.42	3,137.24	9.66	9.04	174.02	113.41	-172.03	794.16	776.70	17.46	45.478	
3,300.00	3,232.03	3,234.94	3,234.75	9.91	9.29	174.11	112.56	-172.74	816.27	798.36	17.91	45.572	
3,400.00	3,329.48	3,332.46	3,332.26	10.17	9.55	174.19	111.72	-173.45	838.38	820.01	18.37	45.637	
3,500.00	3,426.93	3,429.98	3,429.77	10.43	9.80	174.26	110.87	-174.16	860.49	841.65	18.84	45.678	
3,600.00	3,524.39	3,527.50	3,527.28	10.71	10.06	174.34	110.02	-174.87	882.61	863.29	19.31	45.697	
3,700.00	3,621.84	3,625.02	3,624.80	10.99	10.31	174.41	109.17	-175.58	904.72	884.92	19.80	45.697	
3,800.00	3,719.29	3,722.53	3,722.31	11.27	10.57	174.47	108.33	-176.30	926.83	906.55	20.29	45.681	
3,900.00	3,816.74	3,820.05	3,819.82	11.57	10.82	174.54	107.48	-177.01	948.95	928.16	20.79	45.651	
4,000.00	3,914.20	3,917.57	3,917.33	11.87	11.08	174.60	106.63	-177.72	971.07	949.78	21.29	45.610	
4,100.00	4,011.65	4,015.09	4,014.85	12.17	11.34	174.65	105.78	-178.43	993.19	971.39	21.80	45.559	
4,200.00	4,109.10	4,112.61	4,112.36	12.48	11.60	174.71	104.94	-179.14	1,015.31	992.99	22.31	45.499	
4,300.00	4,206.56	4,210.13	4,209.87	12.79	11.85	174.76	104.09	-179.85	1,037.43	1,014.59	22.83	45.432	
4,400.00	4,304.01	4,307.65	4,307.38	13.11	12.11	174.81	103.24	-180.56	1,059.55	1,036.19	23.36	45.360	
4,500.00	4,401.46	4,405.16	4,404.89	13.43	12.37	174.86	102.39	-181.27	1,081.67	1,057.78	23.89	45.282	
4,600.00	4,498.91	4,502.68	4,502.41	13.76	12.63	174.91	101.55	-181.98	1,103.79	1,079.37	24.42	45.201	
4,700.00	4,596.37	4,600.20	4,599.92	14.09	12.89	174.95	100.70	-182.70	1,125.91	1,100.96	24.96	45.117	
4,800.00	4,693.82	4,702.28	4,697.43	14.42	13.17	175.00	99.85	-183.41	1,148.04	1,122.53	25.51	45.009	
4,900.00	4,791.27	4,804.76	4,794.94	14.75	13.44	175.04	99.00	-184.12	1,170.16	1,144.10	26.06	44.897	
5,000.00	4,888.72	4,907.24	4,892.46	15.09	13.72	175.08	98.16	-184.83	1,192.29	1,165.66	26.62	44.786	



## Hewlett-Packard

### Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27A-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-51.68	119.13	-150.73	192.12					
100.00	100.00	101.00	101.00	3.28	3.28	-51.68	119.13	-150.73	192.12	184.59	7.53	25.518		
200.00	200.00	201.00	201.00	3.31	3.31	-51.68	119.13	-150.73	192.12	184.55	7.57	25.365 CC, ES		
300.00	299.98	300.44	300.44	3.35	3.34	161.77	118.61	-151.44	194.02	186.37	7.65	25.352 SF		
400.00	399.84	400.30	400.29	3.41	3.40	161.92	118.01	-152.27	199.27	191.50	7.77	25.636		
500.00	499.45	500.09	499.89	3.49	3.48	162.34	117.40	-153.10	207.84	199.90	7.94	26.180		
600.00	598.70	600.84	599.14	3.61	3.58	162.98	116.80	-153.93	219.74	211.59	8.15	26.960		
700.00	697.47	702.08	697.90	3.76	3.70	163.77	116.20	-154.75	234.99	226.58	8.41	27.952		
800.00	795.62	803.92	796.05	3.96	3.84	164.64	115.61	-155.57	253.61	244.90	8.71	29.130		
900.00	893.16	906.37	893.59	4.20	3.99	165.60	115.02	-156.38	275.15	266.10	9.05	30.418		
1,000.00	990.62	1,008.91	991.05	4.49	4.16	166.48	114.43	-157.20	297.14	287.73	9.40	31.597		
1,100.00	1,088.07	1,088.54	1,088.50	4.80	4.30	167.24	113.84	-158.01	319.19	309.44	9.75	32.737		
1,200.00	1,185.52	1,186.00	1,185.95	5.13	4.48	167.90	113.25	-158.82	341.28	331.13	10.15	33.623		
1,300.00	1,282.97	1,283.46	1,283.40	5.48	4.66	168.48	112.66	-159.63	363.42	352.85	10.57	34.376		
1,400.00	1,380.43	1,380.92	1,380.86	5.85	4.86	168.99	112.07	-160.44	385.58	374.57	11.01	35.017		
1,500.00	1,477.88	1,478.37	1,478.31	6.23	5.06	169.45	111.48	-161.25	407.78	396.31	11.47	35.561		
1,600.00	1,575.33	1,575.83	1,575.76	6.62	5.27	169.86	110.89	-162.07	429.99	418.05	11.94	36.024		
1,700.00	1,672.79	1,673.29	1,673.21	7.02	5.48	170.23	110.30	-162.88	452.22	439.81	12.42	36.416		
1,800.00	1,770.24	1,770.75	1,770.66	7.42	5.70	170.57	109.71	-163.69	474.47	461.56	12.91	36.751		
1,900.00	1,867.69	1,868.20	1,868.12	7.65	5.84	170.88	109.12	-164.50	496.74	483.90	12.83	38.712		
2,000.00	1,965.14	1,965.66	1,965.57	7.70	5.89	171.16	108.53	-165.31	519.01	506.12	12.90	40.246		
2,100.00	2,062.60	2,063.12	2,063.02	7.78	5.91	171.41	107.94	-166.13	541.30	528.35	12.95	41.790		
2,200.00	2,160.05	2,160.58	2,160.47	7.87	5.94	171.65	107.35	-166.94	563.60	550.56	13.04	43.224		
2,300.00	2,257.50	2,258.03	2,257.93	7.98	5.99	171.87	106.76	-167.75	585.90	572.75	13.15	44.543		
2,400.00	2,354.95	2,355.49	2,355.38	8.11	6.04	172.07	106.17	-168.56	608.21	594.92	13.30	45.745		
2,500.00	2,452.41	2,452.95	2,452.83	8.25	6.11	172.26	105.58	-169.37	630.53	617.07	13.46	46.828		
2,600.00	2,549.86	2,550.41	2,550.28	8.41	6.19	172.43	104.99	-170.19	652.86	639.20	13.66	47.796		
2,700.00	2,647.31	2,647.86	2,647.73	8.59	6.28	172.60	104.40	-171.00	675.19	661.31	13.88	48.650		
2,800.00	2,744.76	2,745.32	2,745.19	8.78	6.38	172.75	103.81	-171.81	697.52	683.40	14.12	49.397		
2,900.00	2,842.22	2,842.78	2,842.64	8.98	6.49	172.89	103.22	-172.62	719.86	705.48	14.39	50.042		
3,000.00	2,939.67	2,940.24	2,940.09	9.20	6.61	173.03	102.63	-173.43	742.20	727.53	14.67	50.592		
3,100.00	3,037.12	3,037.69	3,037.54	9.43	6.73	173.15	102.04	-174.24	764.55	749.58	14.97	51.055		
3,200.00	3,134.58	3,135.15	3,135.00	9.66	6.87	173.27	101.45	-175.06	786.90	771.60	15.30	51.438		
3,300.00	3,232.03	3,232.61	3,232.45	9.91	7.01	173.39	100.86	-175.87	809.26	793.62	15.64	51.749		
3,400.00	3,329.48	3,330.06	3,329.90	10.17	7.16	173.49	100.27	-176.68	831.61	815.62	15.99	51.994		
3,500.00	3,426.93	3,427.52	3,427.35	10.43	7.32	173.60	99.68	-177.49	853.97	837.61	16.37	52.182		
3,600.00	3,524.39	3,524.98	3,524.80	10.71	7.48	173.69	99.09	-178.30	876.33	859.58	16.75	52.317		
3,700.00	3,621.84	3,622.44	3,622.26	10.99	7.65	173.78	98.50	-179.12	898.70	881.55	17.15	52.407		
3,800.00	3,719.29	3,719.89	3,719.71	11.27	7.83	173.87	97.91	-179.93	921.06	903.51	17.56	52.458		
3,900.00	3,816.74	3,817.35	3,817.16	11.57	8.01	173.95	97.32	-180.74	943.43	925.45	17.98	52.473		
4,000.00	3,914.20	3,914.81	3,914.61	11.87	8.19	174.03	96.73	-181.55	965.80	947.39	18.41	52.458		
4,100.00	4,011.65	4,012.27	4,012.07	12.17	8.38	174.11	96.14	-182.36	988.17	969.32	18.85	52.417		
4,200.00	4,109.10	4,109.72	4,109.52	12.48	8.57	174.18	95.55	-183.18	1,010.55	991.24	19.30	52.354		
4,300.00	4,206.56	4,207.18	4,206.97	12.79	8.77	174.25	94.96	-183.99	1,032.92	1,013.16	19.76	52.271		
4,400.00	4,304.01	4,304.64	4,304.42	13.11	8.97	174.32	94.37	-184.80	1,055.30	1,035.07	20.23	52.172		
4,500.00	4,401.46	4,402.10	4,401.87	13.43	9.18	174.38	93.78	-185.61	1,077.67	1,056.97	20.70	52.060		
4,600.00	4,498.91	4,500.45	4,499.33	13.76	9.39	174.44	93.20	-186.42	1,100.05	1,078.87	21.18	51.931		
4,700.00	4,596.37	4,602.99	4,596.78	14.09	9.61	174.50	92.61	-187.24	1,122.43	1,100.75	21.68	51.771		
4,800.00	4,693.82	4,705.53	4,694.23	14.42	9.84	174.56	92.02	-188.05	1,144.81	1,122.63	22.18	51.603		
4,900.00	4,791.27	4,808.07	4,791.68	14.75	10.06	174.61	91.43	-188.86	1,167.19	1,144.50	22.69	51.430		
5,000.00	4,888.72	4,889.38	4,889.14	15.09	10.25	174.66	90.84	-189.67	1,189.58	1,166.41	23.16	51.360		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27B-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-43.55	158.83	-151.01	219.16					
100.00	100.00	101.00	101.00	3.28	3.28	-43.55	158.83	-151.01	219.16	211.63	7.53	29.109		
200.00	200.00	201.00	201.00	3.31	3.31	-43.55	158.83	-151.01	219.16	211.59	7.57	28.935	CC, ES, SF	
300.00	299.98	304.31	295.68	3.35	3.35	170.22	160.27	-151.50	222.33	214.67	7.66	29.019		
400.00	399.84	404.62	395.33	3.41	3.42	170.69	162.74	-152.35	229.88	222.08	7.79	29.504		
500.00	499.45	505.26	494.66	3.49	3.51	171.24	165.20	-153.20	240.87	232.91	7.97	30.234		
600.00	598.70	606.35	593.53	3.61	3.62	171.85	167.65	-154.04	255.32	247.13	8.19	31.188		
700.00	697.47	708.02	691.83	3.76	3.75	172.48	170.08	-154.88	273.21	264.76	8.45	32.336		
800.00	795.62	789.62	789.44	3.96	3.86	173.10	172.50	-155.71	294.53	285.81	8.72	33.767		
900.00	893.16	886.57	886.35	4.20	4.01	173.72	174.90	-156.54	318.80	309.75	9.05	35.219		
1,000.00	990.62	983.42	983.17	4.49	4.17	174.28	177.30	-157.36	343.50	334.10	9.40	36.556		
1,100.00	1,088.07	1,080.27	1,079.99	4.80	4.34	174.77	179.69	-158.19	368.22	358.46	9.77	37.696		
1,200.00	1,185.52	1,177.13	1,176.81	5.13	4.52	175.20	182.09	-159.01	392.97	382.81	10.16	38.665		
1,300.00	1,282.97	1,273.98	1,273.63	5.48	4.70	175.57	184.49	-159.84	417.73	407.15	10.58	39.484		
1,400.00	1,380.43	1,370.83	1,370.44	5.85	4.90	175.90	186.88	-160.66	442.51	431.50	11.01	40.177		
1,500.00	1,477.88	1,467.68	1,467.26	6.23	5.10	176.20	189.28	-161.49	467.30	455.84	11.46	40.761		
1,600.00	1,575.33	1,564.53	1,564.08	6.62	5.31	176.47	191.68	-162.32	492.11	480.18	11.93	41.254		
1,700.00	1,672.79	1,661.38	1,660.90	7.02	5.52	176.71	194.08	-163.14	516.92	504.51	12.41	41.670		
1,800.00	1,770.24	1,758.23	1,757.71	7.42	5.74	176.93	196.47	-163.97	541.74	528.84	12.89	42.020		
1,900.00	1,867.69	1,855.08	1,854.53	7.65	5.90	177.14	198.87	-164.79	566.56	553.74	12.83	44.168		
2,000.00	1,965.14	1,951.93	1,951.35	7.70	5.96	177.32	201.27	-165.62	591.39	578.49	12.91	45.821		
2,100.00	2,062.60	2,048.78	2,048.17	7.78	5.98	177.49	203.66	-166.44	616.23	603.27	12.96	47.540		
2,200.00	2,160.05	2,145.64	2,144.99	7.87	6.01	177.64	206.06	-167.27	641.07	628.03	13.05	49.137		
2,300.00	2,257.50	2,242.49	2,241.80	7.98	6.05	177.79	208.46	-168.09	665.92	652.76	13.16	50.606		
2,400.00	2,354.95	2,339.34	2,338.62	8.11	6.10	177.92	210.86	-168.92	690.77	677.47	13.30	51.944		
2,500.00	2,452.41	2,436.19	2,435.44	8.25	6.17	178.05	213.25	-169.74	715.62	702.16	13.46	53.151		
2,600.00	2,549.86	2,533.04	2,532.26	8.41	6.24	178.16	215.65	-170.57	740.48	726.82	13.65	54.228		
2,700.00	2,647.31	2,629.89	2,629.08	8.59	6.33	178.27	218.05	-171.39	765.34	751.47	13.87	55.180		
2,800.00	2,744.76	2,726.74	2,725.89	8.78	6.43	178.38	220.44	-172.22	790.20	776.09	14.11	56.012		
2,900.00	2,842.22	2,823.59	2,822.71	8.98	6.53	178.47	222.84	-173.05	815.06	800.69	14.37	56.730		
3,000.00	2,939.67	2,920.44	2,919.53	9.20	6.65	178.56	225.24	-173.87	839.93	825.28	14.65	57.342		
3,100.00	3,037.12	3,017.29	3,016.35	9.43	6.77	178.65	227.64	-174.70	864.79	849.85	14.95	57.856		
3,200.00	3,134.58	3,114.15	3,113.16	9.66	6.90	178.73	230.03	-175.52	889.66	874.40	15.27	58.280		
3,300.00	3,232.03	3,211.00	3,209.98	9.91	7.04	178.80	232.43	-176.35	914.53	898.93	15.60	58.624		
3,400.00	3,329.48	3,307.85	3,306.80	10.17	7.19	178.87	234.83	-177.17	939.41	923.45	15.95	58.894		
3,500.00	3,426.93	3,404.70	3,403.62	10.43	7.34	178.94	237.22	-178.00	964.28	947.96	16.32	59.099		
3,600.00	3,524.39	3,501.55	3,500.44	10.71	7.50	179.01	239.62	-178.82	989.15	972.46	16.70	59.245		
3,700.00	3,621.84	3,601.60	3,597.25	10.99	7.67	179.07	242.02	-179.65	1,014.03	996.93	17.09	59.321		
3,800.00	3,719.29	3,704.75	3,694.07	11.27	7.85	179.13	244.42	-180.47	1,038.90	1,021.39	17.51	59.333		
3,900.00	3,816.74	3,807.90	3,790.89	11.57	8.04	179.18	246.81	-181.30	1,063.78	1,045.84	17.94	59.304		
4,000.00	3,914.20	3,888.95	3,887.71	11.87	8.19	179.24	249.21	-182.12	1,088.66	1,070.33	18.33	59.377		
4,100.00	4,011.65	3,985.81	3,984.53	12.17	8.38	179.29	251.61	-182.95	1,113.54	1,094.77	18.77	59.324		
4,200.00	4,109.10	4,082.66	4,081.34	12.48	8.57	179.34	254.00	-183.78	1,138.42	1,119.20	19.22	59.246		
4,300.00	4,206.56	4,179.51	4,178.16	12.79	8.77	179.38	256.40	-184.60	1,163.30	1,143.63	19.67	59.146		
4,400.00	4,304.01	4,276.36	4,274.98	13.11	8.96	179.43	258.80	-185.43	1,188.18	1,168.05	20.13	59.028		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27C-XR - Wellbore #1 - Design #1											Offset Site Error:		0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:		3.28 usft
Reference		Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Minimum Separation (usft)	Separation Factor
0.00	0.00	1.00	1.00	3.28	3.28	-56.63	99.08	-150.45	180.15				
100.00	100.00	101.00	101.00	3.28	3.28	-56.63	99.08	-150.45	180.15	172.62	7.53	23.927	
200.00	200.00	201.02	201.02	3.31	3.31	-56.63	99.08	-150.45	180.15	172.57	7.57	23.784	
200.68	200.68	201.72	201.72	3.31	3.31	156.92	99.08	-150.45	180.15	172.57	7.57	23.783 CC, ES	
300.00	299.98	303.35	303.33	3.35	3.35	156.58	97.26	-150.84	181.09	173.44	7.65	23.659 SF	
400.00	399.84	403.37	403.27	3.41	3.40	156.11	93.59	-151.62	184.55	176.78	7.77	23.751	
500.00	499.45	503.14	502.98	3.49	3.48	156.07	89.93	-152.39	191.21	183.27	7.93	24.101	
600.00	598.70	602.64	602.41	3.61	3.58	156.40	86.28	-153.17	201.05	192.90	8.14	24.689	
700.00	697.47	701.75	701.44	3.76	3.70	157.04	82.64	-153.94	214.09	205.69	8.40	25.492	
800.00	795.62	800.34	799.96	3.96	3.83	157.90	79.03	-154.71	230.35	221.66	8.70	26.490	
900.00	893.16	901.61	897.95	4.20	3.99	158.95	75.43	-155.48	249.45	240.41	9.04	27.598	
1,000.00	990.62	1,003.64	995.85	4.49	4.16	159.93	71.83	-156.24	269.00	259.60	9.41	28.601	
1,100.00	1,088.07	1,105.67	1,093.75	4.80	4.34	160.78	68.24	-157.01	288.61	278.81	9.80	29.446	
1,200.00	1,185.52	1,207.69	1,191.66	5.13	4.53	161.53	64.64	-157.77	308.28	298.06	10.22	30.156	
1,300.00	1,282.97	1,309.72	1,289.56	5.48	4.73	162.18	61.05	-158.53	327.99	317.33	10.67	30.750	
1,400.00	1,380.43	1,388.25	1,387.47	5.85	4.90	162.76	57.45	-159.30	347.74	336.66	11.08	31.385	
1,500.00	1,477.88	1,486.23	1,485.37	6.23	5.10	163.28	53.86	-160.06	367.52	355.97	11.55	31.824	
1,600.00	1,575.33	1,584.20	1,583.28	6.62	5.32	163.75	50.26	-160.83	387.32	375.29	12.03	32.193	
1,700.00	1,672.79	1,682.17	1,681.18	7.02	5.54	164.17	46.67	-161.59	407.15	394.62	12.53	32.504	
1,800.00	1,770.24	1,780.15	1,779.08	7.42	5.77	164.55	43.07	-162.36	427.00	413.96	13.03	32.765	
1,900.00	1,867.69	1,878.12	1,876.99	7.65	5.91	164.89	39.48	-163.12	446.86	433.91	12.95	34.513	
2,000.00	1,965.14	1,976.09	1,974.89	7.70	5.94	165.21	35.88	-163.88	466.73	453.73	13.00	35.895	
2,100.00	2,062.60	2,074.07	2,072.80	7.78	5.97	165.50	32.29	-164.65	486.62	473.56	13.06	37.254	
2,200.00	2,160.05	2,172.04	2,170.70	7.87	6.00	165.77	28.69	-165.41	506.52	493.37	13.15	38.514	
2,300.00	2,257.50	2,270.01	2,268.61	7.98	6.05	166.02	25.10	-166.18	526.43	513.16	13.27	39.670	
2,400.00	2,354.95	2,367.99	2,366.51	8.11	6.12	166.25	21.50	-166.94	546.35	532.94	13.42	40.720	
2,500.00	2,452.41	2,465.96	2,464.41	8.25	6.19	166.47	17.91	-167.71	566.28	552.69	13.59	41.664	
2,600.00	2,549.86	2,563.93	2,562.32	8.41	6.27	166.66	14.31	-168.47	586.21	572.42	13.79	42.504	
2,700.00	2,647.31	2,661.91	2,660.22	8.59	6.37	166.85	10.71	-169.23	606.16	592.14	14.02	43.244	
2,800.00	2,744.76	2,759.88	2,758.13	8.78	6.47	167.03	7.12	-170.00	626.10	611.84	14.27	43.888	
2,900.00	2,842.22	2,857.85	2,856.03	8.98	6.59	167.19	3.52	-170.76	646.05	631.52	14.54	44.441	
3,000.00	2,939.67	2,955.83	2,953.94	9.20	6.71	167.34	-0.07	-171.53	666.01	651.18	14.83	44.910	
3,100.00	3,037.12	3,053.80	3,051.84	9.43	6.85	167.49	-3.67	-172.29	685.97	670.83	15.14	45.303	
3,200.00	3,134.58	3,151.77	3,149.74	9.66	6.99	167.63	-7.26	-173.05	705.93	690.46	15.47	45.625	
3,300.00	3,232.03	3,249.75	3,247.65	9.91	7.14	167.75	-10.86	-173.82	725.90	710.08	15.82	45.883	
3,400.00	3,329.48	3,347.72	3,345.55	10.17	7.30	167.88	-14.45	-174.58	745.87	729.69	16.18	46.084	
3,500.00	3,426.93	3,445.69	3,443.46	10.43	7.46	167.99	-18.05	-175.35	765.85	749.28	16.56	46.235	
3,600.00	3,524.39	3,543.67	3,541.36	10.71	7.63	168.10	-21.64	-176.11	785.83	768.87	16.96	46.341	
3,700.00	3,621.84	3,641.64	3,639.27	10.99	7.81	168.21	-25.24	-176.88	805.81	788.44	17.36	46.407	
3,800.00	3,719.29	3,739.61	3,737.17	11.27	7.99	168.31	-28.83	-177.64	825.79	808.01	17.78	46.439	
3,900.00	3,816.74	3,837.58	3,835.07	11.57	8.18	168.40	-32.43	-178.40	845.77	827.56	18.21	46.441	
4,000.00	3,914.20	3,935.56	3,932.98	11.87	8.37	168.49	-36.02	-179.17	865.76	847.11	18.65	46.417	
4,100.00	4,011.65	4,033.53	4,030.88	12.17	8.57	168.58	-39.62	-179.93	885.75	866.65	19.10	46.371	
4,200.00	4,109.10	4,131.50	4,128.79	12.48	8.77	168.66	-43.21	-180.70	905.74	886.18	19.56	46.305	
4,300.00	4,206.56	4,229.48	4,226.69	12.79	8.97	168.74	-46.81	-181.46	925.73	905.71	20.03	46.224	
4,400.00	4,304.01	4,327.45	4,324.60	13.11	9.18	168.82	-50.40	-182.23	945.73	925.23	20.50	46.128	
4,500.00	4,401.46	4,425.42	4,422.50	13.43	9.39	168.89	-54.00	-182.99	965.72	944.74	20.98	46.021	
4,600.00	4,498.91	4,523.40	4,520.40	13.76	9.61	168.96	-57.59	-183.75	985.72	964.25	21.47	45.904	
4,700.00	4,596.37	4,621.37	4,618.31	14.09	9.83	169.03	-61.19	-184.52	1,005.72	983.75	21.97	45.780	
4,800.00	4,693.82	4,719.34	4,716.21	14.42	10.05	169.09	-64.78	-185.28	1,025.72	1,003.25	22.47	45.649	
4,900.00	4,791.27	4,817.32	4,814.12	14.75	10.27	169.15	-68.38	-186.05	1,045.72	1,022.74	22.98	45.513	
5,000.00	4,888.72	4,915.29	4,912.02	15.09	10.50	169.21	-71.98	-186.81	1,065.72	1,042.23	23.49	45.373	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27C-XR - Wellbore #1 - Design #1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												<b>Offset Well Error:</b>	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,986.18	5,013.26	5,009.93	15.43	10.73	169.27	-75.57	-187.57	1,085.73	1,061.72	24.00	45.230	
5,200.00	5,083.63	5,111.24	5,107.83	15.78	10.96	169.32	-79.17	-188.34	1,105.73	1,081.20	24.53	45.085	
5,300.00	5,181.08	5,209.21	5,205.73	16.12	11.19	169.38	-82.76	-189.10	1,125.74	1,100.68	25.05	44.939	
5,400.00	5,278.53	5,307.18	5,303.64	16.47	11.43	169.43	-86.36	-189.87	1,145.74	1,120.16	25.58	44.791	
5,500.00	5,375.99	5,405.16	5,401.54	16.82	11.66	169.48	-89.95	-190.63	1,165.75	1,139.64	26.11	44.643	
5,600.00	5,473.44	5,503.13	5,499.45	17.17	11.90	169.53	-93.55	-191.40	1,185.76	1,159.11	26.65	44.496	
6,900.00	6,738.83	8,030.99	7,361.84	21.40	21.45	129.24	-168.19	736.12	1,198.35	1,159.40	38.96	30.761	
7,000.00	6,829.27	8,007.37	7,361.86	21.50	21.19	121.30	-167.94	697.76	1,170.21	1,130.83	39.38	29.717	
7,100.00	6,912.66	7,940.31	7,361.89	21.56	20.48	116.08	-167.59	645.45	1,150.52	1,111.28	39.24	29.323	
7,200.00	6,986.95	7,875.33	7,361.92	21.59	19.83	111.83	-167.16	580.46	1,138.39	1,099.40	38.98	29.201	
7,300.00	7,050.31	7,800.72	7,361.97	21.58	19.11	108.06	-166.66	504.42	1,132.35	1,093.77	38.57	29.358	
7,400.00	7,101.17	7,705.29	7,361.51	21.54	18.30	104.57	-166.02	410.44	1,130.55	1,092.55	37.99	29.758	
7,500.00	7,138.29	7,580.94	7,344.56	21.46	17.38	100.74	-164.58	287.45	1,129.42	1,092.14	37.28	30.292	
7,600.00	7,160.75	7,471.18	7,310.00	21.37	16.73	97.53	-162.62	183.44	1,128.11	1,091.18	36.92	30.552	
7,700.00	7,168.01	7,372.45	7,264.08	21.26	16.33	94.84	-160.35	96.18	1,126.88	1,090.05	36.83	30.597	
7,747.78	7,168.10	7,329.60	7,240.06	21.20	16.23	93.61	-159.23	60.73	1,126.60	1,089.72	36.88	30.549	
7,800.00	7,168.19	7,287.15	7,213.96	21.16	16.15	92.28	-158.05	27.28	1,127.01	1,090.06	36.95	30.501	
7,900.00	7,168.37	7,217.46	7,166.46	21.19	16.02	89.86	-155.96	-23.63	1,130.75	1,093.52	37.23	30.373	
8,000.00	7,168.55	7,160.73	7,123.88	21.90	15.91	87.70	-154.15	-61.03	1,139.42	1,101.81	37.61	30.298	
8,100.00	7,168.73	7,114.34	7,086.69	22.80	15.82	85.83	-152.60	-88.71	1,153.92	1,115.87	38.05	30.330	
8,200.00	7,168.91	7,076.08	7,054.57	23.78	15.74	84.22	-151.28	-109.45	1,174.73	1,136.22	38.51	30.502	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 26C-27-XR - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7745-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-34.64	218.94	-151.28	266.12					
100.00	100.00	101.00	101.00	3.28	3.28	-34.64	218.94	-151.28	266.12	258.59	7.53	35.346		
200.00	200.00	201.00	201.00	3.31	3.31	-34.64	218.94	-151.28	266.12	258.55	7.57	35.135	CC, ES, SF	
300.00	299.98	293.32	293.31	3.35	3.35	179.07	220.45	-151.43	269.30	261.65	7.66	35.178		
400.00	399.84	385.14	385.01	3.41	3.41	179.53	224.89	-151.86	278.79	271.01	7.78	35.848		
500.00	499.45	481.61	481.23	3.49	3.50	-179.80	231.87	-152.53	293.86	285.91	7.95	36.975		
600.00	598.70	579.80	579.14	3.61	3.60	-179.17	239.09	-153.22	312.53	304.37	8.16	38.281		
700.00	697.47	677.27	676.35	3.76	3.72	-178.62	246.26	-153.92	334.65	326.23	8.42	39.740		
800.00	795.62	773.91	772.73	3.96	3.86	-178.15	253.38	-154.60	360.18	351.46	8.72	41.326		
900.00	893.16	869.75	868.30	4.20	4.01	-177.76	260.43	-155.28	388.63	379.59	9.04	42.967		
1,000.00	990.62	965.47	963.76	4.49	4.17	-177.44	267.47	-155.96	417.48	408.10	9.39	44.476		
1,100.00	1,088.07	1,061.20	1,059.23	4.80	4.35	-177.16	274.52	-156.64	446.35	436.59	9.76	45.752		
1,200.00	1,185.52	1,156.92	1,154.69	5.13	4.54	-176.91	281.56	-157.31	475.22	465.07	10.15	46.823		
1,300.00	1,282.97	1,252.64	1,250.15	5.48	4.74	-176.69	288.61	-157.99	504.10	493.53	10.56	47.720		
1,400.00	1,380.43	1,348.36	1,345.61	5.85	4.94	-176.50	295.65	-158.67	532.98	521.98	11.00	48.468		
1,500.00	1,477.88	1,444.09	1,441.07	6.23	5.15	-176.32	302.70	-159.35	561.87	550.43	11.45	49.090		
1,600.00	1,575.33	1,539.81	1,536.53	6.62	5.37	-176.17	309.74	-160.03	590.77	578.86	11.91	49.605		
1,700.00	1,672.79	1,635.53	1,631.99	7.02	5.59	-176.02	316.79	-160.71	619.66	607.28	12.39	50.032		
1,800.00	1,770.24	1,731.25	1,727.45	7.42	5.82	-175.89	323.83	-161.38	648.56	635.69	12.87	50.385		
1,900.00	1,867.69	1,826.98	1,822.91	7.65	6.05	-175.77	330.88	-162.06	677.47	664.59	12.88	52.618		
2,000.00	1,965.14	1,922.70	1,918.37	7.70	6.29	-175.66	337.92	-162.74	706.37	693.25	13.13	53.815		
2,100.00	2,062.60	2,018.42	2,013.83	7.78	6.53	-175.56	344.97	-163.42	735.28	721.89	13.40	54.887		
2,200.00	2,160.05	2,114.14	2,109.29	7.87	6.77	-175.47	352.01	-164.10	764.19	750.51	13.69	55.837		
2,300.00	2,257.50	2,209.87	2,204.75	7.98	7.01	-175.38	359.05	-164.78	793.11	779.11	13.99	56.673		
2,400.00	2,354.95	2,305.59	2,300.21	8.11	7.26	-175.30	366.10	-165.45	822.02	807.70	14.32	57.401		
2,500.00	2,452.41	2,401.31	2,395.67	8.25	7.51	-175.23	373.14	-166.13	850.93	836.27	14.66	58.030		
2,600.00	2,549.86	2,502.97	2,491.13	8.41	7.78	-175.16	380.19	-166.81	879.85	864.81	15.04	58.508		
2,700.00	2,647.31	2,592.76	2,586.60	8.59	8.01	-175.09	387.23	-167.49	908.77	893.37	15.40	59.021		
2,800.00	2,744.76	2,688.48	2,682.06	8.78	8.27	-175.03	394.28	-168.17	937.69	921.90	15.79	59.399		
2,900.00	2,842.22	2,784.20	2,777.52	8.98	8.53	-174.97	401.32	-168.85	966.61	950.42	16.19	59.710		
3,000.00	2,939.67	2,879.93	2,872.98	9.20	8.78	-174.92	408.37	-169.52	995.53	978.92	16.60	59.959		
3,100.00	3,037.12	2,975.65	2,968.44	9.43	9.04	-174.87	415.41	-170.20	1,024.45	1,007.42	17.03	60.155		
3,200.00	3,134.58	3,071.37	3,063.90	9.66	9.30	-174.82	422.46	-170.88	1,053.37	1,035.90	17.47	60.304		
3,300.00	3,232.03	3,167.09	3,159.36	9.91	9.56	-174.77	429.50	-171.56	1,082.29	1,064.38	17.92	60.410		
3,400.00	3,329.48	3,262.82	3,254.82	10.17	9.83	-174.73	436.55	-172.24	1,111.22	1,092.84	18.37	60.481		
3,500.00	3,426.93	3,358.54	3,350.28	10.43	10.09	-174.69	443.59	-172.91	1,140.14	1,121.30	18.84	60.519		
3,600.00	3,524.39	3,454.26	3,445.74	10.71	10.35	-174.65	450.63	-173.59	1,169.06	1,149.75	19.31	60.531		
3,700.00	3,621.84	3,549.98	3,541.20	10.99	10.62	-174.61	457.68	-174.27	1,197.99	1,178.19	19.80	60.518		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 26N-27A-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-37.26	198.90	-151.28	249.90					
100.00	100.00	101.00	101.00	3.28	3.28	-37.26	198.90	-151.28	249.90	242.37	7.53	33.191		
200.00	200.00	201.00	201.00	3.31	3.31	-37.26	198.90	-151.28	249.90	242.32	7.57	32.993	CC, ES, SF	
300.00	299.98	293.89	293.87	3.35	3.35	176.49	200.43	-151.45	253.06	245.40	7.66	33.054		
400.00	399.84	386.26	386.13	3.41	3.41	177.06	204.92	-151.92	262.47	254.70	7.78	33.746		
500.00	499.45	483.38	483.00	3.49	3.50	177.87	211.83	-152.64	277.33	269.38	7.95	34.887		
600.00	598.70	581.59	580.95	3.61	3.60	178.64	218.90	-153.39	295.76	287.59	8.17	36.218		
700.00	697.47	679.09	678.19	3.76	3.72	179.33	225.92	-154.12	317.65	309.23	8.42	37.712		
800.00	795.62	775.76	774.62	3.96	3.86	179.94	232.88	-154.86	342.97	334.25	8.72	39.340		
900.00	893.16	871.64	870.24	4.20	4.01	-179.54	239.78	-155.58	371.23	362.19	9.05	41.031		
1,000.00	990.62	967.39	965.74	4.49	4.18	-179.09	246.67	-156.30	399.91	390.52	9.39	42.591		
1,100.00	1,088.07	1,063.15	1,061.25	4.80	4.35	-178.71	253.56	-157.03	428.60	418.84	9.76	43.919		
1,200.00	1,185.52	1,158.91	1,156.76	5.13	4.54	-178.37	260.45	-157.75	457.30	447.15	10.15	45.045		
1,300.00	1,282.97	1,254.67	1,252.27	5.48	4.74	-178.07	267.34	-158.48	486.02	475.46	10.57	45.996		
1,400.00	1,380.43	1,350.43	1,347.77	5.85	4.94	-177.81	274.24	-159.20	514.76	503.76	11.00	46.798		
1,500.00	1,477.88	1,446.18	1,443.28	6.23	5.15	-177.57	281.13	-159.93	543.50	532.05	11.45	47.473		
1,600.00	1,575.33	1,541.94	1,538.79	6.62	5.37	-177.36	288.02	-160.65	572.24	560.33	11.91	48.040		
1,700.00	1,672.79	1,637.70	1,634.29	7.02	5.59	-177.16	294.91	-161.38	601.00	588.61	12.39	48.516		
1,800.00	1,770.24	1,733.46	1,729.80	7.42	5.82	-176.99	301.80	-162.10	629.76	616.88	12.87	48.916		
1,900.00	1,867.69	1,829.22	1,825.31	7.65	6.01	-176.83	308.69	-162.82	658.52	645.68	12.84	51.274		
2,000.00	1,965.14	1,924.98	1,920.82	7.70	6.11	-176.68	315.59	-163.55	687.29	674.34	12.95	53.057		
2,100.00	2,062.60	2,020.73	2,016.32	7.78	6.13	-176.55	322.48	-164.27	716.06	703.05	13.01	55.046		
2,200.00	2,160.05	2,116.49	2,111.83	7.87	6.16	-176.42	329.37	-165.00	744.84	731.75	13.09	56.895		
2,300.00	2,257.50	2,212.25	2,207.34	7.98	6.20	-176.31	336.26	-165.72	773.62	760.42	13.20	58.598		
2,400.00	2,354.95	2,308.01	2,302.84	8.11	6.26	-176.20	343.15	-166.45	802.40	789.06	13.34	60.152		
2,500.00	2,452.41	2,403.77	2,398.35	8.25	6.32	-176.10	350.05	-167.17	831.18	817.68	13.50	61.554		
2,600.00	2,549.86	2,500.48	2,493.86	8.41	6.40	-176.01	356.94	-167.89	859.97	846.28	13.69	62.804		
2,700.00	2,647.31	2,604.72	2,589.37	8.59	6.50	-175.92	363.83	-168.62	888.76	874.84	13.91	63.874		
2,800.00	2,744.76	2,708.96	2,684.87	8.78	6.60	-175.84	370.72	-169.34	917.55	903.39	14.16	64.797		
2,900.00	2,842.22	2,786.80	2,780.38	8.98	6.69	-175.76	377.61	-170.07	946.34	931.94	14.40	65.721		
3,000.00	2,939.67	2,882.56	2,875.89	9.20	6.81	-175.69	384.51	-170.79	975.13	960.45	14.68	66.436		
3,100.00	3,037.12	2,978.32	2,971.39	9.43	6.93	-175.62	391.40	-171.52	1,003.93	988.95	14.98	67.038		
3,200.00	3,134.58	3,074.07	3,066.90	9.66	7.06	-175.56	398.29	-172.24	1,032.72	1,017.43	15.29	67.537		
3,300.00	3,232.03	3,169.83	3,162.41	9.91	7.20	-175.50	405.18	-172.96	1,061.52	1,045.89	15.62	67.941		
3,400.00	3,329.48	3,265.59	3,257.92	10.17	7.35	-175.44	412.07	-173.69	1,090.32	1,074.34	15.97	68.261		
3,500.00	3,426.93	3,361.35	3,353.42	10.43	7.51	-175.39	418.96	-174.41	1,119.11	1,102.78	16.34	68.504		
3,600.00	3,524.39	3,457.11	3,448.93	10.71	7.67	-175.34	425.86	-175.14	1,147.91	1,131.20	16.71	68.680		
3,700.00	3,621.84	3,552.86	3,544.44	10.99	7.83	-175.29	432.75	-175.86	1,176.71	1,159.61	17.10	68.795		



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 26N-27C-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7664-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-40.17	178.87	-151.01	234.08				
100.00	100.00	101.00	101.00	3.28	3.28	-40.17	178.87	-151.01	234.08	226.56	7.53	31.091	
200.00	200.00	201.00	201.00	3.31	3.31	-40.17	178.87	-151.01	234.08	226.51	7.57	30.905	CC, ES, SF
300.00	299.98	294.27	294.25	3.35	3.35	173.61	180.39	-151.26	237.25	229.59	7.66	30.989	
400.00	399.84	391.07	390.96	3.41	3.41	174.22	184.56	-151.96	246.21	238.43	7.78	31.639	
500.00	499.45	509.79	489.99	3.49	3.52	174.90	189.08	-152.72	258.89	250.91	7.97	32.467	
600.00	598.70	588.84	588.51	3.61	3.60	175.57	193.58	-153.47	275.05	266.88	8.17	33.663	
700.00	697.47	686.83	686.41	3.76	3.72	176.20	198.04	-154.22	294.67	286.24	8.43	34.968	
800.00	795.62	784.08	783.55	3.96	3.86	176.79	202.48	-154.96	317.73	309.01	8.72	36.432	
900.00	893.16	880.59	879.95	4.20	4.01	177.33	206.88	-155.69	343.74	334.69	9.05	37.982	
1,000.00	990.62	976.99	976.25	4.49	4.17	177.82	211.28	-156.43	370.16	360.77	9.39	39.411	
1,100.00	1,088.07	1,073.39	1,072.55	4.80	4.34	178.23	215.67	-157.17	396.61	386.85	9.76	40.627	
1,200.00	1,185.52	1,169.79	1,168.85	5.13	4.52	178.60	220.07	-157.90	423.08	412.92	10.16	41.659	
1,300.00	1,282.97	1,266.19	1,265.15	5.48	4.71	178.92	224.46	-158.64	449.56	438.99	10.57	42.530	
1,400.00	1,380.43	1,362.59	1,361.45	5.85	4.91	179.21	228.86	-159.37	476.05	465.04	11.00	43.266	
1,500.00	1,477.88	1,459.00	1,457.74	6.23	5.11	179.47	233.26	-160.11	502.55	491.10	11.45	43.884	
1,600.00	1,575.33	1,555.40	1,554.04	6.62	5.32	179.70	237.65	-160.84	529.06	517.14	11.91	44.405	
1,700.00	1,672.79	1,651.80	1,650.34	7.02	5.54	179.90	242.05	-161.58	555.57	543.18	12.39	44.842	
1,800.00	1,770.24	1,748.20	1,746.64	7.42	5.76	-179.91	246.44	-162.31	582.09	569.22	12.88	45.210	
1,900.00	1,867.69	1,844.60	1,842.94	7.65	5.98	-179.73	250.84	-163.05	608.62	595.75	12.87	47.274	
2,000.00	1,965.14	1,941.00	1,939.24	7.70	6.21	-179.57	255.24	-163.79	635.15	622.03	13.12	48.409	
2,100.00	2,062.60	2,037.41	2,035.54	7.78	6.44	-179.43	259.63	-164.52	661.69	648.30	13.39	49.428	
2,200.00	2,160.05	2,133.81	2,131.83	7.87	6.67	-179.29	264.03	-165.26	688.23	674.56	13.67	50.335	
2,300.00	2,257.50	2,230.21	2,228.13	7.98	6.91	-179.17	268.42	-165.99	714.78	700.80	13.98	51.137	
2,400.00	2,354.95	2,326.61	2,324.43	8.11	7.15	-179.05	272.82	-166.73	741.32	727.02	14.30	51.840	
2,500.00	2,452.41	2,423.01	2,420.73	8.25	7.39	-178.94	277.22	-167.46	767.87	753.23	14.64	52.450	
2,600.00	2,549.86	2,519.41	2,517.03	8.41	7.63	-178.84	281.61	-168.20	794.42	779.43	15.00	52.976	
2,700.00	2,647.31	2,615.82	2,613.33	8.59	7.88	-178.75	286.01	-168.93	820.98	805.61	15.37	53.423	
2,800.00	2,744.76	2,712.22	2,709.62	8.78	8.12	-178.66	290.40	-169.67	847.53	831.78	15.75	53.800	
2,900.00	2,842.22	2,808.62	2,805.92	8.98	8.37	-178.58	294.80	-170.41	874.09	857.94	16.15	54.114	
3,000.00	2,939.67	2,905.02	2,902.22	9.20	8.62	-178.50	299.20	-171.14	900.65	884.08	16.57	54.370	
3,100.00	3,037.12	3,001.42	2,998.52	9.43	8.87	-178.43	303.59	-171.88	927.21	910.22	16.99	54.576	
3,200.00	3,134.58	3,102.18	3,094.82	9.66	9.13	-178.36	307.99	-172.61	953.77	936.34	17.44	54.702	
3,300.00	3,232.03	3,194.22	3,191.12	9.91	9.37	-178.29	312.38	-173.35	980.33	962.46	17.87	54.859	
3,400.00	3,329.48	3,309.37	3,287.42	10.17	9.68	-178.23	316.78	-174.08	1,006.90	988.52	18.37	54.800	
3,500.00	3,426.93	3,387.03	3,383.71	10.43	9.88	-178.17	321.18	-174.82	1,033.46	1,014.67	18.79	55.004	
3,600.00	3,524.39	3,483.43	3,480.01	10.71	10.14	-178.11	325.57	-175.56	1,060.03	1,040.77	19.26	55.035	
3,700.00	3,621.84	3,579.83	3,576.31	10.99	10.39	-178.06	329.97	-176.29	1,086.60	1,066.86	19.74	55.043	
3,800.00	3,719.29	3,676.23	3,672.61	11.27	10.65	-178.01	334.36	-177.03	1,113.16	1,092.94	20.23	55.032	
3,900.00	3,816.74	3,772.63	3,768.91	11.57	10.91	-177.96	338.76	-177.76	1,139.73	1,119.01	20.72	55.004	
4,000.00	3,914.20	3,869.04	3,865.21	11.87	11.17	-177.92	343.16	-178.50	1,166.30	1,145.08	21.22	54.961	
4,100.00	4,011.65	3,965.44	3,961.50	12.17	11.43	-177.87	347.55	-179.23	1,192.87	1,171.15	21.73	54.907	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30C-30-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7781-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	-0.32	199.99	-1.11	200.00				
100.00	100.00	100.00	100.00	3.28	3.28	-0.32	199.99	-1.11	200.00	192.47	7.53	26.564	
200.00	200.00	200.00	200.00	3.31	3.31	-0.32	199.99	-1.11	200.00	192.42	7.57	26.406 CC, ES	
300.00	299.98	297.73	297.71	3.35	3.35	-146.57	200.55	0.46	202.01	194.36	7.66	26.385 SF	
400.00	399.84	395.20	395.05	3.41	3.41	-145.98	202.20	5.16	208.07	200.29	7.78	26.744	
500.00	499.45	492.16	491.65	3.49	3.50	-145.06	204.93	12.93	218.19	210.23	7.95	27.434	
600.00	598.70	588.82	587.63	3.61	3.61	-143.91	208.71	23.70	232.36	224.18	8.18	28.410	
700.00	697.47	687.24	685.23	3.76	3.75	-143.05	212.94	35.74	249.78	241.32	8.46	29.521	
800.00	795.62	785.18	782.34	3.96	3.91	-142.69	217.14	47.72	269.96	261.17	8.80	30.694	
900.00	893.16	882.60	878.93	4.20	4.10	-142.84	221.33	59.64	292.50	283.32	9.18	31.870	
1,000.00	990.62	979.94	975.45	4.49	4.30	-143.12	225.51	71.55	315.35	305.76	9.59	32.884	
1,100.00	1,088.07	1,077.28	1,071.97	4.80	4.51	-143.36	229.69	83.46	338.20	328.17	10.04	33.698	
1,200.00	1,185.52	1,174.63	1,168.50	5.13	4.74	-143.57	233.88	95.37	361.07	350.55	10.51	34.346	
1,300.00	1,282.97	1,271.97	1,265.02	5.48	4.98	-143.76	238.06	107.27	383.93	372.92	11.01	34.858	
1,400.00	1,380.43	1,369.31	1,361.54	5.85	5.23	-143.92	242.24	119.18	406.80	395.27	11.54	35.259	
1,500.00	1,477.88	1,466.66	1,458.06	6.23	5.48	-144.07	246.42	131.09	429.68	417.60	12.08	35.571	
1,600.00	1,575.33	1,564.00	1,554.58	6.62	5.75	-144.20	250.60	143.00	452.55	439.91	12.64	35.810	
1,700.00	1,672.79	1,661.34	1,651.10	7.02	6.02	-144.32	254.79	154.91	475.43	462.22	13.21	35.992	
1,800.00	1,770.24	1,758.69	1,747.63	7.42	6.29	-144.43	258.97	166.82	498.31	484.51	13.79	36.127	
1,900.00	1,867.69	1,856.03	1,844.15	7.85	6.57	-144.53	263.15	178.73	521.19	507.32	13.87	37.579	
2,000.00	1,965.14	1,953.37	1,940.67	7.70	6.86	-144.62	267.33	190.63	544.07	529.89	14.18	38.359	
2,100.00	2,062.60	2,050.72	2,037.19	7.78	7.15	-144.71	271.51	202.54	566.95	552.43	14.52	39.050	
2,200.00	2,160.05	2,148.06	2,133.71	7.87	7.44	-144.79	275.70	214.45	589.84	574.96	14.87	39.655	
2,300.00	2,257.50	2,245.40	2,230.23	7.98	7.73	-144.86	279.88	226.36	612.72	597.47	15.25	40.181	
2,400.00	2,354.95	2,342.75	2,326.76	8.11	8.03	-144.92	284.06	238.27	635.61	619.97	15.64	40.634	
2,500.00	2,452.41	2,440.09	2,423.28	8.25	8.33	-144.99	288.24	250.18	658.50	642.44	16.05	41.020	
2,600.00	2,549.86	2,537.43	2,519.80	8.41	8.63	-145.04	292.42	262.09	681.38	664.90	16.48	41.345	
2,700.00	2,647.31	2,634.78	2,616.32	8.59	8.94	-145.10	296.61	274.00	704.27	687.35	16.92	41.616	
2,800.00	2,744.76	2,732.12	2,712.84	8.78	9.24	-145.15	300.79	285.90	727.16	709.78	17.38	41.838	
2,900.00	2,842.22	2,829.46	2,809.36	8.98	9.55	-145.20	304.97	297.81	750.05	732.20	17.85	42.016	
3,000.00	2,939.67	2,926.81	2,905.89	9.20	9.86	-145.24	309.15	309.72	772.94	754.60	18.34	42.155	
3,100.00	3,037.12	3,024.15	3,002.41	9.43	10.16	-145.28	313.33	321.63	795.83	777.00	18.83	42.261	
3,200.00	3,134.58	3,121.49	3,098.93	9.66	10.48	-145.32	317.52	333.54	818.72	799.38	19.34	42.337	
3,300.00	3,232.03	3,218.84	3,195.45	9.91	10.79	-145.36	321.70	345.45	841.61	821.75	19.86	42.387	
3,400.00	3,329.48	3,316.18	3,291.97	10.17	11.10	-145.40	325.88	357.36	864.50	844.12	20.38	42.414	
3,500.00	3,426.93	3,413.52	3,388.49	10.43	11.41	-145.43	330.06	369.26	887.39	866.47	20.92	42.423	
3,600.00	3,524.39	3,510.87	3,485.02	10.71	11.73	-145.46	334.24	381.17	910.28	888.82	21.46	42.414	
3,700.00	3,621.84	3,608.21	3,581.54	10.99	12.04	-145.49	338.43	393.08	933.18	911.16	22.01	42.391	
3,800.00	3,719.29	3,705.56	3,678.06	11.27	12.36	-145.52	342.61	404.99	956.07	933.50	22.57	42.357	
3,900.00	3,816.74	3,802.90	3,774.58	11.57	12.67	-145.55	346.79	416.90	978.96	955.82	23.14	42.312	
4,000.00	3,914.20	3,900.24	3,871.10	11.87	12.99	-145.57	350.97	428.81	1,001.85	978.15	23.71	42.258	
4,100.00	4,011.65	4,002.42	3,967.62	12.17	13.32	-145.60	355.15	440.72	1,024.75	1,000.45	24.30	42.170	
4,200.00	4,109.10	4,105.07	4,064.14	12.48	13.66	-145.62	359.34	452.63	1,047.64	1,022.74	24.90	42.074	
4,300.00	4,206.56	4,207.73	4,160.67	12.79	13.99	-145.65	363.52	464.53	1,070.53	1,045.03	25.50	41.975	
4,400.00	4,304.01	4,289.62	4,257.19	13.11	14.26	-145.67	367.70	476.44	1,093.43	1,067.38	26.05	41.982	
4,500.00	4,401.46	4,386.96	4,353.71	13.43	14.58	-145.69	371.88	488.35	1,116.32	1,089.68	26.64	41.903	
4,600.00	4,498.91	4,484.30	4,450.23	13.76	14.90	-145.71	376.06	500.26	1,139.21	1,111.97	27.24	41.821	
4,700.00	4,596.37	4,581.65	4,546.75	14.09	15.22	-145.73	380.25	512.17	1,162.11	1,134.26	27.84	41.737	
4,800.00	4,693.82	4,678.99	4,643.27	14.42	15.54	-145.75	384.43	524.08	1,185.00	1,156.55	28.45	41.652	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30N-30A-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	-0.35	179.96	-1.11	179.97				
100.00	100.00	100.00	100.00	3.28	3.28	-0.35	179.96	-1.11	179.97	172.44	7.53	23.903	
200.00	200.00	200.00	200.00	3.31	3.31	-0.35	179.96	-1.11	179.97	172.39	7.57	23.761	CC, ES, SF
300.00	299.98	298.09	298.07	3.35	3.35	-146.57	180.48	0.48	181.95	174.29	7.66	23.763	
400.00	399.84	395.92	395.77	3.41	3.41	-145.91	182.03	5.25	187.90	180.12	7.78	24.150	
500.00	499.45	493.25	492.74	3.49	3.50	-144.89	184.60	13.15	197.84	189.89	7.95	24.873	
600.00	598.70	589.88	588.68	3.61	3.61	-143.61	188.15	24.08	211.80	203.62	8.18	25.892	
700.00	697.47	688.30	686.20	3.76	3.75	-142.56	192.25	36.72	229.15	220.69	8.46	27.072	
800.00	795.62	786.25	783.25	3.96	3.92	-142.09	196.34	49.30	249.26	240.45	8.80	28.320	
900.00	893.16	883.70	879.81	4.20	4.11	-142.17	200.41	61.81	271.69	262.50	9.19	29.571	
1,000.00	990.62	981.07	976.29	4.49	4.31	-142.40	204.47	74.31	294.44	284.83	9.60	30.657	
1,100.00	1,088.07	1,078.44	1,072.77	4.80	4.53	-142.60	208.53	86.82	317.19	307.13	10.06	31.542	
1,200.00	1,185.52	1,175.82	1,169.25	5.13	4.76	-142.77	212.60	99.32	339.94	329.40	10.54	32.258	
1,300.00	1,282.97	1,273.19	1,265.73	5.48	5.00	-142.92	216.66	111.82	362.70	351.65	11.05	32.835	
1,400.00	1,380.43	1,370.56	1,362.21	5.85	5.26	-143.05	220.72	124.33	385.46	373.88	11.58	33.298	
1,500.00	1,477.88	1,467.93	1,458.69	6.23	5.52	-143.17	224.78	136.83	408.22	396.09	12.12	33.668	
1,600.00	1,575.33	1,565.30	1,555.17	6.62	5.79	-143.28	228.85	149.34	430.98	418.29	12.69	33.962	
1,700.00	1,672.79	1,662.68	1,651.65	7.02	6.06	-143.37	232.91	161.84	453.74	440.48	13.27	34.196	
1,800.00	1,770.24	1,760.05	1,748.13	7.42	6.34	-143.46	236.97	174.35	476.51	462.65	13.86	34.380	
1,900.00	1,867.69	1,857.42	1,844.61	7.85	6.55	-143.54	241.03	186.85	499.27	485.41	13.86	36.013	
2,000.00	1,965.14	1,954.79	1,941.09	7.70	6.63	-143.61	245.10	199.35	522.04	508.06	13.98	37.347	
2,100.00	2,062.60	2,052.16	2,037.57	7.78	6.67	-143.67	249.16	211.86	544.81	530.74	14.06	38.738	
2,200.00	2,160.05	2,149.54	2,134.05	7.87	6.72	-143.73	253.22	224.36	567.58	553.40	14.18	40.026	
2,300.00	2,257.50	2,246.91	2,230.53	7.98	6.79	-143.79	257.29	236.87	590.34	576.02	14.33	41.207	
2,400.00	2,354.95	2,344.28	2,327.01	8.11	6.86	-143.84	261.35	249.37	613.11	598.61	14.50	42.279	
2,500.00	2,452.41	2,441.65	2,423.49	8.25	6.95	-143.89	265.41	261.87	635.88	621.18	14.70	43.243	
2,600.00	2,549.86	2,539.02	2,519.97	8.41	7.05	-143.93	269.47	274.38	658.65	643.72	14.93	44.103	
2,700.00	2,647.31	2,636.40	2,616.45	8.59	7.17	-143.97	273.54	286.88	681.42	666.23	15.19	44.861	
2,800.00	2,744.76	2,733.77	2,712.93	8.78	7.29	-144.01	277.60	299.39	704.19	688.72	15.47	45.523	
2,900.00	2,842.22	2,831.14	2,809.41	8.98	7.43	-144.05	281.66	311.89	726.96	711.19	15.77	46.095	
3,000.00	2,939.67	2,928.51	2,905.89	9.20	7.57	-144.08	285.73	324.39	749.73	733.64	16.09	46.583	
3,100.00	3,037.12	3,025.88	3,002.37	9.43	7.73	-144.11	289.79	336.90	772.50	756.06	16.44	46.994	
3,200.00	3,134.58	3,123.26	3,098.85	9.66	7.89	-144.14	293.85	349.40	795.27	778.47	16.80	47.336	
3,300.00	3,232.03	3,220.63	3,195.33	9.91	8.06	-144.17	297.91	361.91	818.04	800.86	17.18	47.614	
3,400.00	3,329.48	3,318.00	3,291.81	10.17	8.24	-144.20	301.98	374.41	840.82	823.24	17.58	47.835	
3,500.00	3,426.93	3,415.37	3,388.30	10.43	8.43	-144.22	306.04	386.91	863.59	845.60	17.99	48.006	
3,600.00	3,524.39	3,512.74	3,484.78	10.71	8.62	-144.25	310.10	399.42	886.36	867.94	18.42	48.131	
3,700.00	3,621.84	3,610.12	3,581.26	10.99	8.82	-144.27	314.17	411.92	909.13	890.28	18.85	48.217	
3,800.00	3,719.29	3,707.49	3,677.74	11.27	9.02	-144.29	318.23	424.43	931.90	912.60	19.31	48.268	
3,900.00	3,816.74	3,804.86	3,774.22	11.57	9.24	-144.31	322.29	436.93	954.68	934.91	19.77	48.289	
4,000.00	3,914.20	3,902.23	3,870.70	11.87	9.45	-144.33	326.35	449.43	977.45	957.20	20.24	48.284	
4,100.00	4,011.65	4,000.40	3,967.18	12.17	9.67	-144.35	330.42	461.94	1,000.22	979.49	20.73	48.251	
4,200.00	4,109.10	4,103.02	4,063.66	12.48	9.91	-144.37	334.48	474.44	1,022.99	1,001.76	21.24	48.174	
4,300.00	4,206.56	4,194.35	4,160.14	12.79	10.13	-144.39	338.54	486.95	1,045.77	1,024.04	21.72	48.141	
4,400.00	4,304.01	4,308.28	4,256.62	13.11	10.40	-144.41	342.61	499.45	1,068.54	1,046.27	22.27	47.975	
4,500.00	4,401.46	4,389.09	4,353.10	13.43	10.60	-144.42	346.67	511.95	1,091.31	1,068.56	22.75	47.970	
4,600.00	4,498.91	4,486.46	4,449.58	13.76	10.84	-144.44	350.73	524.46	1,114.08	1,090.81	23.27	47.868	
4,700.00	4,596.37	4,583.84	4,546.06	14.09	11.08	-144.45	354.79	536.96	1,136.86	1,113.05	23.80	47.758	
4,800.00	4,693.82	4,681.21	4,642.54	14.42	11.33	-144.47	358.86	549.47	1,159.63	1,135.29	24.34	47.640	
4,900.00	4,791.27	4,778.58	4,739.02	14.75	11.58	-144.48	362.92	561.97	1,182.40	1,157.52	24.88	47.517	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30N-30B-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-0.36	220.03	-1.39	220.04					
100.00	100.00	100.00	100.00	3.28	3.28	-0.36	220.03	-1.39	220.04	212.51	7.53	29.226		
200.00	200.00	200.00	200.00	3.31	3.31	-0.36	220.03	-1.39	220.04	212.46	7.57	29.052 CC, ES		
300.00	299.98	296.41	296.39	3.35	3.35	-146.66	220.82	0.03	222.30	214.65	7.66	29.036 SF		
400.00	399.84	392.51	392.37	3.41	3.41	-146.21	223.16	4.27	229.10	221.32	7.78	29.450		
500.00	499.45	488.00	487.52	3.49	3.50	-145.51	227.02	11.27	240.41	232.46	7.95	30.240		
600.00	598.70	582.59	581.46	3.61	3.61	-144.63	232.36	20.94	256.24	248.07	8.17	31.358		
700.00	697.47	678.99	676.87	3.76	3.74	-143.73	239.01	32.98	276.20	267.75	8.45	32.689		
800.00	795.62	776.34	773.19	3.96	3.91	-143.24	245.82	45.31	299.03	290.24	8.78	34.047		
900.00	893.16	873.11	868.94	4.20	4.09	-143.25	252.59	57.57	324.21	315.04	9.16	35.375		
1,000.00	990.62	969.80	964.62	4.49	4.30	-143.42	259.35	69.82	349.71	340.13	9.58	36.520		
1,100.00	1,088.07	1,066.49	1,060.29	4.80	4.52	-143.57	266.11	82.07	375.21	365.18	10.02	37.439		
1,200.00	1,185.52	1,163.18	1,155.96	5.13	4.75	-143.69	272.87	94.32	400.71	390.21	10.50	38.169		
1,300.00	1,282.97	1,259.87	1,251.63	5.48	5.00	-143.81	279.63	106.57	426.21	415.21	11.00	38.742		
1,400.00	1,380.43	1,356.56	1,347.31	5.85	5.26	-143.91	286.39	118.82	451.71	440.19	11.53	39.194		
1,500.00	1,477.88	1,453.25	1,442.98	6.23	5.52	-144.00	293.16	131.07	477.22	465.15	12.07	39.540		
1,600.00	1,575.33	1,549.94	1,538.65	6.62	5.79	-144.08	299.92	143.32	502.73	490.10	12.63	39.806		
1,700.00	1,672.79	1,646.63	1,634.32	7.02	6.07	-144.15	306.68	155.56	528.23	515.03	13.20	40.006		
1,800.00	1,770.24	1,743.32	1,730.00	7.42	6.36	-144.22	313.44	167.81	553.74	539.95	13.79	40.154		
1,900.00	1,867.69	1,840.01	1,825.67	7.85	6.59	-144.28	320.20	180.06	579.25	565.43	13.82	41.924		
2,000.00	1,965.14	1,936.70	1,921.34	7.70	6.70	-144.33	326.96	192.31	604.76	590.81	13.95	43.340		
2,100.00	2,062.60	2,033.39	2,017.01	7.78	6.74	-144.38	333.73	204.56	630.27	616.23	14.04	44.902		
2,200.00	2,160.05	2,130.08	2,112.69	7.87	6.79	-144.43	340.49	216.81	655.78	641.63	14.15	46.345		
2,300.00	2,257.50	2,226.77	2,208.36	7.98	6.85	-144.47	347.25	229.06	681.29	667.00	14.29	47.665		
2,400.00	2,354.95	2,323.46	2,304.03	8.11	6.93	-144.51	354.01	241.31	706.80	692.33	14.47	48.861		
2,500.00	2,452.41	2,420.15	2,399.70	8.25	7.02	-144.55	360.77	253.56	732.31	717.65	14.67	49.934		
2,600.00	2,549.86	2,516.84	2,495.38	8.41	7.12	-144.58	367.53	265.80	757.82	742.93	14.89	50.887		
2,700.00	2,647.31	2,613.53	2,591.05	8.59	7.23	-144.62	374.30	278.05	783.33	768.19	15.14	51.724		
2,800.00	2,744.76	2,710.22	2,686.72	8.78	7.36	-144.65	381.06	290.30	808.85	793.43	15.42	52.452		
2,900.00	2,842.22	2,806.91	2,782.39	8.98	7.49	-144.67	387.82	302.55	834.36	818.64	15.72	53.076		
3,000.00	2,939.67	2,903.60	2,878.07	9.20	7.63	-144.70	394.58	314.80	859.87	843.83	16.04	53.606		
3,100.00	3,037.12	3,000.29	2,973.74	9.43	7.79	-144.73	401.34	327.05	885.38	869.00	16.38	54.048		
3,200.00	3,134.58	3,103.02	3,069.41	9.66	7.96	-144.75	408.11	339.30	910.90	894.14	16.75	54.376		
3,300.00	3,232.03	3,206.33	3,165.08	9.91	8.15	-144.77	414.87	351.55	936.41	919.27	17.14	54.627		
3,400.00	3,329.48	3,309.64	3,260.76	10.17	8.34	-144.79	421.63	363.79	961.92	944.37	17.55	54.811		
3,500.00	3,426.93	3,387.05	3,356.43	10.43	8.49	-144.81	428.39	376.04	987.43	969.51	17.92	55.093		
3,600.00	3,524.39	3,483.74	3,452.10	10.71	8.68	-144.83	435.15	388.29	1,012.95	994.60	18.35	55.211		
3,700.00	3,621.84	3,580.43	3,547.77	10.99	8.88	-144.85	441.91	400.54	1,038.46	1,019.68	18.78	55.284		
3,800.00	3,719.29	3,677.12	3,643.45	11.27	9.09	-144.87	448.68	412.79	1,063.97	1,044.74	19.23	55.318		
3,900.00	3,816.74	3,773.81	3,739.12	11.57	9.30	-144.89	455.44	425.04	1,089.49	1,069.79	19.69	55.318		
4,000.00	3,914.20	3,870.50	3,834.79	11.87	9.51	-144.90	462.20	437.29	1,115.00	1,094.83	20.17	55.289		
4,100.00	4,011.65	3,967.19	3,930.46	12.17	9.74	-144.92	468.96	449.54	1,140.51	1,119.86	20.65	55.234		
4,200.00	4,109.10	4,063.88	4,026.14	12.48	9.96	-144.93	475.72	461.78	1,166.03	1,144.89	21.14	55.158		
4,300.00	4,206.56	4,160.58	4,121.81	12.79	10.19	-144.95	482.48	474.03	1,191.54	1,169.90	21.64	55.063		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30B-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	3.28	3.28	-0.27	59.74	-0.28	59.75				
100.00	100.00	100.00	100.00	3.28	3.28	-0.27	59.74	-0.28	59.75	52.22	7.53	7.935	
200.00	200.00	200.00	200.00	3.31	3.31	-0.27	59.74	-0.28	59.75	52.17	7.57	7.888	CC, ES
300.00	299.98	301.34	301.32	3.35	3.35	-146.32	58.61	1.11	60.08	52.42	7.65	7.850	
400.00	399.84	402.67	402.50	3.41	3.41	-145.16	55.21	5.27	61.10	53.33	7.77	7.865	
500.00	499.45	503.96	503.39	3.49	3.50	-143.31	49.54	12.19	62.84	54.91	7.93	7.925	
600.00	598.70	605.19	603.84	3.61	3.62	-140.89	41.63	21.86	65.38	57.24	8.15	8.026	
700.00	697.47	705.80	703.23	3.76	3.77	-138.31	31.75	33.93	68.97	60.54	8.43	8.179	
800.00	795.62	805.61	801.75	3.96	3.96	-137.45	21.59	46.33	74.95	66.16	8.78	8.532	
900.00	893.16	905.27	900.11	4.20	4.18	-138.16	11.46	58.71	83.15	73.97	9.19	9.052	
1,000.00	990.62	1,004.90	998.45	4.49	4.41	-138.95	1.33	71.09	91.67	82.04	9.63	9.522	
1,100.00	1,088.07	1,104.52	1,096.78	4.80	4.67	-139.61	-8.81	83.47	100.21	90.10	10.11	9.916	
1,200.00	1,185.52	1,204.15	1,195.12	5.13	4.94	-140.16	-18.94	95.85	108.75	98.14	10.61	10.245	
1,300.00	1,282.97	1,303.78	1,293.46	5.48	5.22	-140.63	-29.07	108.23	117.30	106.15	11.15	10.521	
1,400.00	1,380.43	1,403.41	1,391.79	5.85	5.52	-141.04	-39.20	120.61	125.86	114.16	11.71	10.752	
1,500.00	1,477.88	1,503.04	1,490.13	6.23	5.82	-141.40	-49.34	132.99	134.43	122.15	12.28	10.945	
1,600.00	1,575.33	1,602.67	1,588.46	6.62	6.14	-141.71	-59.47	145.37	143.00	130.13	12.87	11.108	
1,700.00	1,672.79	1,702.30	1,686.80	7.02	6.46	-141.99	-69.60	157.75	151.58	138.10	13.48	11.245	
1,800.00	1,770.24	1,801.93	1,785.14	7.42	6.78	-142.23	-79.73	170.13	160.15	146.06	14.09	11.364	
1,900.00	1,867.69	1,901.56	1,883.47	7.85	6.96	-142.46	-89.87	182.51	168.73	154.69	14.04	12.016	
2,000.00	1,965.14	2,001.19	1,981.81	7.70	6.99	-142.66	-100.00	194.89	177.32	163.22	14.10	12.577	
2,100.00	2,062.60	2,100.82	2,080.15	7.78	7.05	-142.84	-110.13	207.27	185.90	171.71	14.19	13.103	
2,200.00	2,160.05	2,200.45	2,178.48	7.87	7.12	-143.01	-120.26	219.65	194.49	180.18	14.31	13.591	
2,300.00	2,257.50	2,300.07	2,276.82	7.98	7.20	-143.16	-130.40	232.03	203.07	188.61	14.46	14.040	
2,400.00	2,354.95	2,399.70	2,375.16	8.11	7.30	-143.30	-140.53	244.41	211.66	197.01	14.65	14.449	
2,500.00	2,452.41	2,500.67	2,473.49	8.25	7.42	-143.43	-150.66	256.79	220.25	205.39	14.86	14.817	
2,600.00	2,549.86	2,598.96	2,571.83	8.41	7.54	-143.55	-160.79	269.17	228.84	213.74	15.11	15.150	
2,700.00	2,647.31	2,701.41	2,670.17	8.59	7.69	-143.66	-170.93	281.55	237.44	222.06	15.38	15.439	
2,800.00	2,744.76	2,798.22	2,768.50	8.78	7.83	-143.76	-181.06	293.92	246.03	230.36	15.67	15.701	
2,900.00	2,842.22	2,897.85	2,866.84	8.98	8.00	-143.86	-191.19	306.30	254.62	238.64	15.99	15.926	
3,000.00	2,939.67	3,002.52	2,965.17	9.20	8.18	-143.95	-201.32	318.68	263.22	246.88	16.34	16.112	
3,100.00	3,037.12	3,102.89	3,063.51	9.43	8.37	-144.03	-211.46	331.06	271.81	255.11	16.70	16.276	
3,200.00	3,134.58	3,203.26	3,161.85	9.66	8.56	-144.11	-221.59	343.44	280.41	263.33	17.08	16.415	
3,300.00	3,232.03	3,303.63	3,260.18	9.91	8.77	-144.19	-231.72	355.82	289.00	271.52	17.48	16.530	
3,400.00	3,329.48	3,404.00	3,358.52	10.17	8.98	-144.26	-241.85	368.20	297.60	279.70	17.90	16.624	
3,500.00	3,426.93	3,504.38	3,456.86	10.43	9.20	-144.32	-251.99	380.58	306.20	287.86	18.34	16.700	
3,600.00	3,524.39	3,604.75	3,555.19	10.71	9.43	-144.39	-262.12	392.96	314.79	296.01	18.78	16.759	
3,700.00	3,621.84	3,705.12	3,653.53	10.99	9.67	-144.45	-272.25	405.34	323.39	304.15	19.25	16.804	
3,800.00	3,719.29	3,805.49	3,751.87	11.27	9.91	-144.50	-282.38	417.72	331.99	312.27	19.72	16.835	
3,900.00	3,816.74	3,905.86	3,850.20	11.57	10.15	-144.55	-292.52	430.10	340.59	320.38	20.21	16.856	
4,000.00	3,914.20	4,006.23	3,948.54	11.87	10.41	-144.61	-302.65	442.48	349.19	328.48	20.70	16.867	
4,100.00	4,011.65	4,106.60	4,046.88	12.17	10.66	-144.65	-312.78	454.86	357.78	336.58	21.21	16.869	
4,200.00	4,109.10	4,206.97	4,145.21	12.48	10.92	-144.70	-322.91	467.24	366.38	344.66	21.73	16.864	
4,300.00	4,206.56	4,307.34	4,243.55	12.79	11.19	-144.74	-333.05	479.62	374.98	352.73	22.25	16.853	
4,400.00	4,304.01	4,407.71	4,341.89	13.11	11.46	-144.79	-343.18	492.00	383.58	360.80	22.78	16.836	
4,500.00	4,401.46	4,508.08	4,440.22	13.43	11.73	-144.83	-353.31	504.38	392.18	368.86	23.32	16.815	
4,600.00	4,498.91	4,591.55	4,538.56	13.76	11.97	-144.86	-363.44	516.76	400.78	376.96	23.83	16.821	
4,700.00	4,596.37	4,708.82	4,636.89	14.09	12.29	-144.90	-373.58	529.14	409.38	384.96	24.42	16.761	
4,800.00	4,693.82	4,809.20	4,735.23	14.42	12.58	-144.94	-383.71	541.51	417.98	393.00	24.98	16.730	
4,900.00	4,791.27	4,890.43	4,833.57	14.75	12.81	-144.97	-393.84	553.89	426.58	401.08	25.50	16.731	
5,000.00	4,888.72	5,009.94	4,931.90	15.09	13.15	-145.00	-403.97	566.27	435.18	409.06	26.12	16.661	
5,100.00	4,986.18	5,089.69	5,030.24	15.43	13.38	-145.03	-414.11	578.65	443.78	417.14	26.64	16.660	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30B-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,083.63	5,189.32	5,128.58	15.78	13.67	-145.06	-424.24	591.03	452.38	425.17	27.22	16.622		
5,300.00	5,181.08	5,288.95	5,226.91	16.12	13.97	-145.09	-434.37	603.41	460.98	433.19	27.80	16.584		
5,400.00	5,278.53	5,388.58	5,325.25	16.47	14.26	-145.12	-444.50	615.79	469.59	441.20	28.38	16.545		
5,500.00	5,375.99	5,488.21	5,423.59	16.82	14.56	-145.15	-454.64	628.17	478.19	449.21	28.97	16.505		
5,600.00	5,473.44	5,587.84	5,521.92	17.17	14.86	-145.17	-464.77	640.55	486.79	457.22	29.57	16.465		
5,700.00	5,570.89	5,687.47	5,620.26	17.52	15.16	-145.20	-474.90	652.93	495.39	465.23	30.16	16.425		
5,800.00	5,668.35	5,787.10	5,718.60	17.88	15.46	-145.22	-485.03	665.31	503.99	473.23	30.76	16.384		
5,900.00	5,765.80	5,886.73	5,816.93	18.23	15.77	-145.25	-495.17	677.69	512.59	481.23	31.36	16.344		
6,000.00	5,863.25	5,986.35	5,915.27	18.59	16.07	-145.27	-505.30	690.07	521.19	489.22	31.97	16.303		
6,100.00	5,960.70	6,085.98	6,013.60	18.95	16.38	-145.29	-515.43	702.45	529.79	497.22	32.58	16.263		
6,200.00	6,058.16	6,185.61	6,111.94	19.31	16.69	-145.31	-525.56	714.83	538.40	505.21	33.19	16.224		
6,300.00	6,155.61	6,285.24	6,210.28	19.67	17.00	-145.33	-535.70	727.21	547.00	513.20	33.80	16.184		
6,400.00	6,253.06	6,384.87	6,308.61	20.03	17.31	-145.35	-545.83	739.59	555.60	521.19	34.41	16.145		
6,500.00	6,350.51	6,484.50	6,406.95	20.40	17.62	-145.37	-555.96	751.97	564.20	529.17	35.03	16.106		
6,600.00	6,447.97	6,584.75	6,506.10	20.76	17.88	-145.39	-566.17	762.41	572.77	537.18	35.59	16.092		
6,700.00	6,545.82	6,684.10	6,604.78	21.04	18.05	-145.41	-576.28	775.11	581.46	545.53	35.93	16.181		
6,800.00	6,643.56	6,781.77	6,700.13	21.24	18.16	-145.42	-586.00	788.88	590.57	554.43	36.14	16.341		
6,900.00	6,738.83	6,877.93	6,790.24	21.40	18.23	-145.43	-595.14	802.83	599.86	563.61	36.26	16.546		
7,000.00	6,829.27	6,972.78	6,873.42	21.50	18.26	-145.44	-603.52	816.22	609.07	572.76	36.31	16.776		
7,100.00	6,912.66	7,066.48	6,948.24	21.56	18.27	-145.45	-611.00	829.44	617.93	581.60	36.33	17.008		
7,200.00	6,986.95	7,159.23	7,013.49	21.59	18.26	-145.46	-617.47	842.96	626.17	589.79	36.38	17.212		
7,300.00	7,050.31	7,251.21	7,068.18	21.58	18.24	-145.47	-622.82	856.30	633.57	597.06	36.51	17.354		
7,400.00	7,101.17	7,342.58	7,111.51	21.54	18.23	-145.48	-626.99	869.05	639.92	603.14	36.78	17.399		
7,500.00	7,138.29	7,433.52	7,142.85	21.46	18.24	-145.49	-629.91	882.82	645.03	607.80	37.23	17.326		
7,600.00	7,160.75	7,524.19	7,161.77	21.37	18.31	-145.50	-631.54	895.54	648.77	610.89	37.87	17.129		
7,700.00	7,168.01	7,614.97	7,168.00	21.26	18.50	-145.51	-631.86	908.25	651.04	612.33	38.71	16.819		
7,800.00	7,168.19	7,714.96	7,168.17	21.16	18.95	-145.52	-631.53	921.06	652.63	612.84	39.80	16.399		
7,900.00	7,168.37	7,814.95	7,168.33	21.19	19.60	-145.53	-631.20	933.87	654.23	613.10	41.13	15.908		
8,000.00	7,168.55	7,914.93	7,168.50	21.90	20.41	-145.54	-630.87	946.68	655.82	613.15	42.68	15.367		
8,100.00	7,168.73	8,014.92	7,168.67	22.80	21.33	-145.55	-630.54	959.49	657.42	612.99	44.43	14.797		
8,200.00	7,168.91	8,114.91	7,168.83	23.78	22.34	-145.56	-630.21	972.30	659.01	612.65	46.36	14.215		
8,300.00	7,169.09	8,214.90	7,169.00	24.84	23.42	-145.57	-629.88	985.11	660.61	612.16	48.45	13.636		
8,400.00	7,169.27	8,314.88	7,169.17	25.95	24.58	-145.58	-629.55	997.92	662.20	611.54	50.67	13.070		
8,500.00	7,169.45	8,414.87	7,169.33	27.12	25.78	-145.59	-629.22	1,010.73	663.80	610.79	53.01	12.523		
8,600.00	7,169.62	8,514.86	7,169.50	28.33	27.04	-145.60	-628.89	1,023.54	665.40	609.94	55.45	11.999		
8,700.00	7,169.80	8,614.85	7,169.67	29.59	28.34	-145.61	-628.56	1,036.35	666.99	609.00	57.99	11.502		
8,800.00	7,169.98	8,714.83	7,169.83	30.88	29.67	-145.62	-628.23	1,049.16	668.59	607.98	60.60	11.033		
8,900.00	7,170.16	8,814.82	7,170.00	32.21	31.04	-145.63	-627.90	1,061.97	670.18	606.90	63.28	10.590		
9,000.00	7,170.34	8,914.81	7,170.17	33.56	32.44	-145.64	-627.56	1,074.78	671.78	605.75	66.03	10.174		
9,100.00	7,170.52	9,014.79	7,170.33	34.94	33.86	-145.65	-627.23	1,087.59	673.37	604.55	68.82	9.784		
9,200.00	7,170.70	9,114.78	7,170.50	36.35	35.30	-145.66	-626.90	1,100.40	674.97	603.30	71.67	9.418		
9,300.00	7,170.88	9,214.77	7,170.67	37.77	36.76	-145.67	-626.57	1,113.21	676.56	602.01	74.55	9.075		
9,400.00	7,171.06	9,314.76	7,170.83	39.22	38.23	-145.68	-626.24	1,126.02	678.16	600.68	77.48	8.753		
9,500.00	7,171.24	9,414.74	7,171.00	40.68	39.73	-145.69	-625.91	1,138.83	679.75	599.32	80.43	8.451		
9,600.00	7,171.42	9,514.73	7,171.17	42.15	41.23	-145.70	-625.58	1,151.64	681.35	597.93	83.42	8.168		
9,700.00	7,171.60	9,614.72	7,171.34	43.64	42.75	-145.71	-625.25	1,164.45	682.94	596.52	86.43	7.902		
9,800.00	7,171.78	9,714.71	7,171.50	45.14	44.28	-145.72	-624.92	1,177.26	684.54	595.08	89.46	7.652		
9,900.00	7,171.95	9,814.69	7,171.67	46.65	45.82	-145.73	-624.59	1,190.07	686.13	593.62	92.52	7.416		
10,000.00	7,172.13	9,914.68	7,171.84	48.18	47.37	-145.74	-624.26	1,202.88	687.73	592.14	95.59	7.194		
10,100.00	7,172.31	10,014.67	7,172.00	49.71	48.92	-145.75	-623.93	1,215.69	689.33	590.64	98.69	6.985		
10,200.00	7,172.49	10,114.65	7,172.17	51.25	50.49	-145.76	-623.60	1,228.50	690.92	589.13	101.79	6.787		
10,300.00	7,172.67	10,214.64	7,172.34	52.79	52.06	-145.77	-623.27	1,241.31	692.52	587.60	104.92	6.601		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30B-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,172.85	10,314.63	7,172.50	54.35	53.63	89.97	-622.93	-2,574.89	694.11	586.06	108.05	6.424		
10,500.00	7,173.03	10,414.62	7,172.67	55.91	55.21	89.97	-622.60	-2,674.88	695.71	584.51	111.20	6.256		
10,600.00	7,173.21	10,514.60	7,172.84	57.48	56.80	89.97	-622.27	-2,774.86	697.30	582.94	114.36	6.097		
10,700.00	7,173.39	10,614.59	7,173.00	59.05	58.39	89.97	-621.94	-2,874.85	698.90	581.37	117.53	5.947		
10,800.00	7,173.57	10,714.59	7,173.17	60.62	59.99	89.97	-621.61	-2,974.85	698.94	578.23	120.71	5.790		
10,900.00	7,173.75	10,814.58	7,173.34	62.20	61.59	89.97	-621.28	-3,074.84	698.11	574.21	123.90	5.634		
11,000.00	7,173.93	10,914.58	7,173.50	63.79	63.19	89.96	-620.95	-3,174.84	697.28	570.18	127.10	5.486		
11,100.00	7,174.11	11,014.58	7,173.67	65.38	64.80	89.96	-620.62	-3,274.83	696.45	566.15	130.30	5.345		
11,200.00	7,174.29	11,114.57	7,173.84	66.97	66.41	89.96	-620.29	-3,374.83	695.63	562.11	133.52	5.210		
11,300.00	7,174.47	11,214.57	7,174.00	68.57	68.02	89.96	-619.96	-3,474.82	694.80	558.06	136.74	5.081		
11,400.00	7,174.65	11,314.57	7,174.17	70.17	69.64	89.96	-619.63	-3,574.82	693.97	554.01	139.96	4.958		
11,500.00	7,174.83	11,414.56	7,174.34	71.77	71.25	89.96	-619.30	-3,674.82	693.14	549.95	143.19	4.841		
11,600.00	7,175.01	11,514.56	7,174.50	73.38	72.88	89.96	-618.97	-3,774.81	692.32	545.89	146.43	4.728		
11,700.00	7,175.19	11,614.56	7,174.67	74.99	74.50	89.96	-618.64	-3,874.81	691.49	541.82	149.67	4.620		
11,800.00	7,175.36	11,714.55	7,174.84	76.60	76.12	89.96	-618.30	-3,974.80	690.66	537.75	152.91	4.517		
11,900.00	7,175.54	11,814.55	7,175.00	78.22	77.75	89.95	-617.97	-4,074.80	689.83	533.67	156.16	4.417		
12,000.00	7,175.72	11,914.55	7,175.17	79.83	79.38	89.95	-617.64	-4,174.80	689.00	529.59	159.42	4.322		
12,100.00	7,175.90	12,014.54	7,175.34	81.45	81.01	89.95	-617.31	-4,274.79	688.18	525.50	162.67	4.230		
12,200.00	7,176.08	12,114.54	7,175.50	83.08	82.64	89.95	-616.98	-4,374.79	687.35	521.42	165.93	4.142		
12,300.00	7,176.26	12,214.54	7,175.67	84.70	84.28	89.95	-616.65	-4,474.78	686.52	517.32	169.20	4.058		
12,400.00	7,176.44	12,314.53	7,175.84	86.32	85.91	89.95	-616.32	-4,574.78	685.69	513.23	172.46	3.976		
12,500.00	7,176.62	12,414.53	7,176.00	87.95	87.55	89.95	-615.99	-4,674.78	684.87	509.13	175.73	3.897		
12,600.00	7,176.80	12,514.53	7,176.17	89.58	89.19	89.95	-615.66	-4,774.77	684.04	505.03	179.01	3.821		
12,700.00	7,176.98	12,614.52	7,176.34	91.21	90.83	89.95	-615.33	-4,874.77	683.21	500.93	182.28	3.748		
12,800.00	7,177.16	12,714.52	7,176.50	92.84	92.47	89.94	-615.00	-4,974.76	682.38	496.82	185.56	3.677		
12,900.00	7,177.34	12,814.52	7,176.67	94.47	94.11	89.94	-614.67	-5,074.76	681.55	492.72	188.84	3.609		
13,000.00	7,177.52	12,914.51	7,176.84	96.11	95.75	89.94	-614.34	-5,174.75	680.73	488.61	192.12	3.543		
13,100.00	7,177.70	13,014.51	7,177.00	97.74	97.39	89.94	-614.01	-5,274.75	679.90	484.49	195.41	3.479		
13,200.00	7,177.88	13,114.51	7,177.17	99.38	99.04	89.94	-613.67	-5,374.75	679.07	480.38	198.69	3.418		
13,300.00	7,178.06	13,214.50	7,177.34	101.02	100.68	89.94	-613.34	-5,474.74	678.24	476.26	201.98	3.358		
13,400.00	7,178.24	13,314.50	7,177.50	102.66	102.33	89.94	-613.01	-5,574.74	677.42	472.15	205.27	3.300		
13,500.00	7,178.42	13,414.50	7,177.67	104.30	103.98	89.94	-612.68	-5,674.73	676.59	468.03	208.56	3.244		
13,600.00	7,178.60	13,514.49	7,177.84	105.94	105.62	89.93	-612.35	-5,774.73	675.76	463.90	211.86	3.190		
13,700.00	7,178.78	13,614.49	7,178.00	107.58	107.27	89.93	-612.02	-5,874.73	674.93	459.78	215.15	3.137		
13,800.00	7,178.96	13,714.49	7,178.17	109.23	108.92	89.93	-611.69	-5,974.72	674.11	455.66	218.45	3.086		
13,900.00	7,179.14	13,814.48	7,178.34	110.87	110.57	89.93	-611.36	-6,074.72	673.28	451.53	221.75	3.036		
14,000.00	7,179.32	13,914.48	7,178.51	112.51	112.22	89.93	-611.03	-6,174.71	672.45	447.40	225.05	2.988		
14,100.00	7,179.50	14,014.47	7,178.67	114.16	113.87	89.93	-610.70	-6,274.71	671.62	443.28	228.35	2.941		
14,200.00	7,179.68	14,114.47	7,178.84	115.81	115.52	89.93	-610.37	-6,374.71	670.79	439.15	231.65	2.896		
14,300.00	7,179.86	14,214.47	7,179.01	117.45	117.18	89.93	-610.04	-6,474.70	669.97	435.01	234.95	2.852		
14,400.00	7,180.04	14,314.46	7,179.17	119.10	118.83	89.93	-609.71	-6,574.70	669.14	430.88	238.26	2.808		
14,500.00	7,180.22	14,414.46	7,179.34	120.75	120.48	89.92	-609.38	-6,674.69	668.31	426.75	241.56	2.767		
14,600.00	7,180.40	14,514.46	7,179.51	122.40	122.14	89.92	-609.04	-6,774.69	667.48	422.61	244.87	2.726		
14,700.00	7,180.58	14,614.45	7,179.67	124.05	123.79	89.92	-608.71	-6,874.68	666.66	418.48	248.18	2.686		
14,800.00	7,180.76	14,714.45	7,179.84	125.70	125.45	89.92	-608.38	-6,974.68	665.83	414.34	251.49	2.648		
14,900.00	7,180.94	14,814.45	7,180.01	127.35	127.10	89.92	-608.05	-7,074.68	665.00	410.21	254.79	2.610		
15,000.00	7,181.11	14,914.44	7,180.17	129.00	128.76	89.92	-607.72	-7,174.67	664.17	406.07	258.11	2.573		
15,100.00	7,181.29	15,014.44	7,180.34	130.65	130.41	89.92	-607.39	-7,274.67	663.34	401.93	261.42	2.537		
15,200.00	7,181.47	15,114.44	7,180.51	132.31	132.07	89.92	-607.06	-7,374.66	662.52	397.79	264.73	2.503		
15,300.00	7,181.65	15,214.43	7,180.67	133.96	133.73	89.91	-606.73	-7,474.66	661.69	393.65	268.04	2.469		
15,400.00	7,181.83	15,314.43	7,180.84	135.61	135.38	89.91	-606.40	-7,574.66	660.86	389.51	271.36	2.435		
15,492.61	7,182.00	15,407.04	7,180.99	137.14	136.92	89.91	-606.09	-7,667.26	660.09	385.67	274.43	2.405 SF		



## Hewlett-Packard

### Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30C-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-0.20	79.78	-0.28	79.78					
100.00	100.00	100.00	100.00	3.28	3.28	-0.20	79.78	-0.28	79.78	72.25	7.53	10.597		
200.00	200.00	200.00	200.00	3.31	3.31	-0.20	79.78	-0.28	79.78	72.21	7.57	10.534	CC, ES	
300.00	299.98	301.40	301.38	3.35	3.35	-146.23	78.89	1.28	80.36	72.71	7.65	10.498		
400.00	399.84	402.75	402.58	3.41	3.41	-144.99	76.24	5.96	82.13	74.35	7.77	10.567		
500.00	499.45	504.02	503.45	3.49	3.50	-143.06	71.82	13.73	85.14	77.21	7.94	10.725		
600.00	598.70	605.17	603.82	3.61	3.62	-140.57	65.65	24.59	89.51	81.34	8.16	10.965		
700.00	697.47	704.93	702.58	3.76	3.77	-138.68	58.67	36.87	95.94	87.49	8.45	11.351		
800.00	795.62	804.51	801.15	3.96	3.95	-138.28	51.71	49.13	105.04	96.24	8.80	11.938		
900.00	893.16	903.85	899.50	4.20	4.15	-138.97	44.76	61.36	116.39	107.20	9.19	12.658		
1,000.00	990.62	1,003.16	997.80	4.49	4.37	-139.72	37.82	73.59	128.06	118.43	9.63	13.301		
1,100.00	1,088.07	1,102.46	1,096.10	4.80	4.61	-140.34	30.87	85.82	139.75	129.65	10.10	13.841		
1,200.00	1,185.52	1,201.77	1,194.41	5.13	4.86	-140.87	23.93	98.04	151.45	140.86	10.60	14.294		
1,300.00	1,282.97	1,301.07	1,292.71	5.48	5.12	-141.32	16.98	110.27	163.17	152.05	11.12	14.674		
1,400.00	1,380.43	1,400.37	1,391.01	5.85	5.40	-141.71	10.04	122.49	174.89	163.23	11.67	14.992		
1,500.00	1,477.88	1,500.32	1,489.32	6.23	5.68	-142.05	3.09	134.72	186.62	174.39	12.23	15.258		
1,600.00	1,575.33	1,601.02	1,587.62	6.62	5.98	-142.35	-3.85	146.94	198.35	185.54	12.82	15.478		
1,700.00	1,672.79	1,701.71	1,685.92	7.02	6.28	-142.61	-10.80	159.17	210.09	196.68	13.41	15.664		
1,800.00	1,770.24	1,797.59	1,784.23	7.42	6.57	-142.85	-17.74	171.40	221.84	207.83	14.01	15.837		
1,900.00	1,867.69	1,903.11	1,882.53	7.65	6.75	-143.07	-24.69	183.62	233.59	219.62	13.96	16.728		
2,000.00	1,965.14	2,003.80	1,980.83	7.70	6.78	-143.26	-31.63	195.85	245.34	231.32	14.02	17.499		
2,100.00	2,062.60	2,104.50	2,079.14	7.78	6.83	-143.44	-38.58	208.07	257.09	242.98	14.11	18.221		
2,200.00	2,160.05	2,205.19	2,177.44	7.87	6.89	-143.60	-45.52	220.30	268.84	254.61	14.23	18.891		
2,300.00	2,257.50	2,294.11	2,275.74	7.98	6.96	-143.75	-52.47	232.52	280.60	266.22	14.38	19.520		
2,400.00	2,354.95	2,406.59	2,374.05	8.11	7.07	-143.88	-59.41	244.75	292.36	277.79	14.57	20.068		
2,500.00	2,452.41	2,507.28	2,472.35	8.25	7.17	-144.01	-66.36	256.98	304.12	289.34	14.78	20.575		
2,600.00	2,549.86	2,592.02	2,570.66	8.41	7.27	-144.12	-73.31	269.20	315.88	300.88	15.00	21.055		
2,700.00	2,647.31	2,708.67	2,668.96	8.59	7.43	-144.23	-80.25	281.43	327.64	312.35	15.29	21.430		
2,800.00	2,744.76	2,809.37	2,767.26	8.78	7.57	-144.33	-87.20	293.65	339.40	323.82	15.58	21.784		
2,900.00	2,842.22	2,889.93	2,865.57	8.98	7.70	-144.42	-94.14	305.88	351.17	335.30	15.87	22.134		
3,000.00	2,939.67	2,989.24	2,963.87	9.20	7.86	-144.51	-101.09	318.10	362.93	346.74	16.20	22.405		
3,100.00	3,037.12	3,088.54	3,062.17	9.43	8.03	-144.59	-108.03	330.33	374.70	358.15	16.55	22.637		
3,200.00	3,134.58	3,187.85	3,160.48	9.66	8.21	-144.67	-114.98	342.56	386.47	369.54	16.93	22.833		
3,300.00	3,232.03	3,287.15	3,258.78	9.91	8.40	-144.74	-121.92	354.78	398.23	380.92	17.32	22.998		
3,400.00	3,329.48	3,386.45	3,357.08	10.17	8.60	-144.81	-128.87	367.01	410.00	392.28	17.72	23.133		
3,500.00	3,426.93	3,485.76	3,455.39	10.43	8.80	-144.87	-135.81	379.23	421.77	403.62	18.15	23.242		
3,600.00	3,524.39	3,585.06	3,553.69	10.71	9.02	-144.93	-142.76	391.46	433.54	414.96	18.58	23.328		
3,700.00	3,621.84	3,684.37	3,651.99	10.99	9.24	-144.99	-149.70	403.68	445.31	426.27	19.03	23.394		
3,800.00	3,719.29	3,783.67	3,750.30	11.27	9.46	-145.05	-156.65	415.91	457.08	437.58	19.50	23.442		
3,900.00	3,816.74	3,882.97	3,848.60	11.57	9.69	-145.10	-163.59	428.14	468.85	448.88	19.97	23.475		
4,000.00	3,914.20	3,982.28	3,946.91	11.87	9.93	-145.15	-170.54	440.36	480.62	460.16	20.46	23.493		
4,100.00	4,011.65	4,081.58	4,045.21	12.17	10.17	-145.19	-177.48	452.59	492.39	471.44	20.95	23.500		
4,200.00	4,109.10	4,180.89	4,143.51	12.48	10.41	-145.24	-184.43	464.81	504.16	482.71	21.46	23.496		
4,300.00	4,206.56	4,280.19	4,241.82	12.79	10.66	-145.28	-191.37	477.04	515.93	493.96	21.97	23.483		
4,400.00	4,304.01	4,379.49	4,340.12	13.11	10.91	-145.32	-198.32	489.26	527.71	505.21	22.49	23.463		
4,500.00	4,401.46	4,478.80	4,438.42	13.43	11.17	-145.36	-205.26	501.49	539.48	516.46	23.02	23.436		
4,600.00	4,498.91	4,578.10	4,536.73	13.76	11.43	-145.40	-212.21	513.71	551.25	527.70	23.55	23.403		
4,700.00	4,596.37	4,677.41	4,635.03	14.09	11.69	-145.44	-219.15	525.94	563.02	538.93	24.10	23.366		
4,800.00	4,693.82	4,776.71	4,733.33	14.42	11.96	-145.47	-226.10	538.17	574.80	550.15	24.64	23.325		
4,900.00	4,791.27	4,876.01	4,831.64	14.75	12.23	-145.50	-233.04	550.39	586.57	561.37	25.20	23.280		
5,000.00	4,888.72	4,975.32	4,929.94	15.09	12.50	-145.53	-239.99	562.62	598.34	572.59	25.75	23.232		
5,100.00	4,986.18	5,074.62	5,028.24	15.43	12.77	-145.56	-246.93	574.84	610.11	583.80	26.32	23.182		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30C-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,083.63	5,173.93	5,126.55	15.78	13.05	-145.59	-253.88	587.07	621.89	595.00	26.89	23.131		
5,300.00	5,181.08	5,273.23	5,224.85	16.12	13.33	-145.62	-260.82	599.29	633.66	606.20	27.46	23.078		
5,400.00	5,278.53	5,372.53	5,323.15	16.47	13.61	-145.65	-267.77	611.52	645.44	617.40	28.03	23.023		
5,500.00	5,375.99	5,471.84	5,421.46	16.82	13.89	-145.68	-274.71	623.75	657.21	628.60	28.61	22.968		
5,600.00	5,473.44	5,571.14	5,519.76	17.17	14.18	-145.70	-281.66	635.97	668.98	639.79	29.20	22.913		
5,700.00	5,570.89	5,670.45	5,618.07	17.52	14.46	-145.73	-288.61	648.20	680.76	650.97	29.78	22.857		
5,800.00	5,668.35	5,769.75	5,716.37	17.88	14.75	-145.75	-295.55	660.42	692.53	662.16	30.37	22.801		
5,900.00	5,765.80	5,869.05	5,814.67	18.23	15.04	-145.77	-302.50	672.65	704.31	673.34	30.97	22.744		
6,000.00	5,863.25	5,968.36	5,912.98	18.59	15.33	-145.79	-309.44	684.87	716.08	684.52	31.56	22.688		
6,100.00	5,960.70	6,067.66	6,011.28	18.95	15.62	-145.82	-316.39	697.10	727.86	695.70	32.16	22.633		
6,200.00	6,058.16	6,166.97	6,109.58	19.31	15.91	-145.84	-323.33	709.33	739.63	706.87	32.76	22.577		
6,300.00	6,155.61	6,266.27	6,207.89	19.67	16.21	-145.86	-330.28	721.55	751.41	718.04	33.36	22.522		
6,400.00	6,253.06	6,365.57	6,306.19	20.03	16.50	-145.88	-337.22	733.78	763.18	729.21	33.97	22.467		
6,500.00	6,350.51	6,464.88	6,404.49	20.40	16.80	-145.89	-344.17	746.00	774.96	740.38	34.58	22.413		
6,600.00	6,447.97	6,564.18	6,502.80	20.76	17.10	-145.91	-351.11	758.23	786.73	751.55	35.19	22.360		
6,700.00	6,545.82	6,663.91	6,601.87	21.04	17.32	-145.94	-358.10	766.39	798.63	762.95	35.68	22.380		
6,800.00	6,643.56	6,763.94	6,701.31	21.24	17.46	-145.96	-365.09	775.49	810.74	774.71	36.03	22.504		
6,900.00	6,738.83	6,864.17	6,798.65	21.40	17.56	-145.97	-371.90	787.01	822.76	786.52	36.25	22.698		
7,000.00	6,829.27	6,964.65	6,891.49	21.50	17.61	-145.98	-378.37	799.40	834.41	798.04	36.37	22.940		
7,100.00	6,912.66	7,065.43	6,977.53	21.56	17.63	-145.99	-384.33	814.46	845.39	808.95	36.44	23.200		
7,200.00	6,986.95	7,166.52	7,054.54	21.59	17.64	-146.00	-389.63	826.36	855.44	818.94	36.50	23.437		
7,300.00	7,050.31	7,267.92	7,120.49	21.58	17.64	-99.03	-394.13	835.62	864.30	827.68	36.62	23.601		
7,400.00	7,101.17	7,369.58	7,173.60	21.54	17.67	-97.23	-397.70	849.12	871.76	834.88	36.88	23.639		
7,500.00	7,138.29	7,471.47	7,212.37	21.46	17.76	-95.99	-400.26	862.05	877.62	840.30	37.33	23.513		
7,600.00	7,160.75	7,573.50	7,235.72	21.37	17.95	-95.22	-401.71	875.85	881.76	843.76	38.00	23.206		
7,700.00	7,168.01	7,675.47	7,243.00	21.26	18.29	-94.87	-402.03	889.26	884.05	845.17	38.88	22.736		
7,800.00	7,168.19	7,775.45	7,242.98	21.16	18.82	-94.85	-401.84	902.27	885.49	845.47	40.02	22.129		
7,900.00	7,168.37	7,875.44	7,242.95	21.19	19.50	-94.83	-401.65	915.72	886.92	845.54	41.38	21.434		
8,000.00	7,168.55	7,975.43	7,242.93	21.90	20.31	-94.80	-401.46	929.71	888.35	845.39	42.96	20.679		
8,100.00	7,168.73	8,075.42	7,242.90	22.80	21.22	-94.78	-401.27	943.70	889.79	845.05	44.74	19.890		
8,200.00	7,168.91	8,175.41	7,242.87	23.78	22.23	-94.76	-401.08	957.69	891.22	844.53	46.68	19.090		
8,300.00	7,169.09	8,275.40	7,242.85	24.84	23.32	-94.74	-400.89	971.68	892.65	843.87	48.78	18.298		
8,400.00	7,169.27	8,375.39	7,242.82	25.95	24.47	-94.72	-400.70	985.66	894.09	843.07	51.02	17.525		
8,500.00	7,169.45	8,475.38	7,242.80	27.12	25.68	-94.70	-400.51	999.65	895.52	842.15	53.37	16.781		
8,600.00	7,169.62	8,575.37	7,242.77	28.33	26.94	-94.68	-400.31	1013.64	896.95	841.14	55.82	16.070		
8,700.00	7,169.80	8,675.36	7,242.75	29.59	28.24	-94.66	-400.12	1027.63	898.39	840.03	58.35	15.396		
8,800.00	7,169.98	8,775.35	7,242.72	30.88	29.58	-94.64	-399.93	1041.62	899.82	838.85	60.97	14.759		
8,900.00	7,170.16	8,875.34	7,242.70	32.21	30.95	-94.62	-399.74	1055.61	901.26	837.61	63.65	14.159		
9,000.00	7,170.34	8,975.33	7,242.67	33.56	32.35	-94.60	-399.55	1069.60	902.69	836.30	66.39	13.596		
9,100.00	7,170.52	9,075.31	7,242.64	34.94	33.77	-94.58	-399.36	1083.59	904.13	834.94	69.19	13.068		
9,200.00	7,170.70	9,175.30	7,242.62	36.35	35.22	-94.56	-399.17	1097.58	905.56	833.53	72.03	12.573		
9,300.00	7,170.88	9,275.29	7,242.59	37.77	36.68	-94.54	-398.98	1111.57	907.00	832.09	74.91	12.108		
9,400.00	7,171.06	9,375.28	7,242.57	39.22	38.16	-94.52	-398.79	1125.55	908.43	830.61	77.83	11.673		
9,500.00	7,171.24	9,475.27	7,242.54	40.68	39.66	-94.50	-398.59	1139.54	909.87	829.09	80.77	11.264		
9,600.00	7,171.42	9,575.26	7,242.52	42.15	41.17	-94.48	-398.40	1153.53	911.30	827.55	83.75	10.881		
9,700.00	7,171.60	9,675.25	7,242.49	43.64	42.69	-94.46	-398.21	1167.52	912.74	825.98	86.76	10.520		
9,800.00	7,171.78	9,775.24	7,242.46	45.14	44.22	-94.44	-398.02	1181.51	914.17	824.39	89.79	10.182		
9,900.00	7,171.95	9,875.23	7,242.44	46.65	45.76	-94.42	-397.83	1195.50	915.61	822.77	92.84	9.863		
10,000.00	7,172.13	9,975.22	7,242.41	48.18	47.31	-94.40	-397.64	1209.49	917.04	821.14	95.90	9.562		
10,100.00	7,172.31	10,075.21	7,242.39	49.71	48.87	-94.38	-397.45	1223.48	918.48	819.49	98.99	9.279		
10,200.00	7,172.49	10,175.20	7,242.36	51.25	50.44	-94.36	-397.26	1237.47	919.91	817.82	102.09	9.011		
10,300.00	7,172.67	10,275.18	7,242.34	52.79	52.01	-94.34	-397.07	1251.46	921.35	816.15	105.21	8.758		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30C-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,400.00	7,172.85	10,375.17	7,242.31	54.35	53.59	94.32	-396.88	-2,575.44	922.79	814.45	108.33	8.518	
10,500.00	7,173.03	10,475.16	7,242.28	55.91	55.17	94.30	-396.68	-2,675.43	924.22	812.75	111.47	8.291	
10,600.00	7,173.21	10,575.15	7,242.26	57.48	56.76	94.28	-396.49	-2,775.42	925.66	811.03	114.63	8.075	
10,700.00	7,173.39	10,675.14	7,242.23	59.05	58.35	94.26	-396.30	-2,875.41	927.10	809.31	117.79	7.871	
10,800.00	7,173.57	10,775.14	7,242.21	60.62	59.95	94.25	-396.11	-2,975.41	926.98	806.02	120.96	7.664	
10,900.00	7,173.75	10,875.13	7,242.18	62.20	61.55	94.24	-395.92	-3,075.40	926.00	801.86	124.14	7.459	
11,000.00	7,173.93	10,975.13	7,242.16	63.79	63.16	94.23	-395.73	-3,175.40	925.02	797.69	127.33	7.265	
11,100.00	7,174.11	11,075.12	7,242.13	65.38	64.77	94.22	-395.54	-3,275.39	924.04	793.51	130.53	7.079	
11,200.00	7,174.29	11,175.12	7,242.10	66.97	66.38	94.21	-395.35	-3,375.39	923.06	789.32	133.74	6.902	
11,300.00	7,174.47	11,275.11	7,242.08	68.57	67.99	94.20	-395.16	-3,475.38	922.08	785.13	136.95	6.733	
11,400.00	7,174.65	11,375.11	7,242.05	70.17	69.61	94.20	-394.96	-3,575.38	921.10	780.93	140.17	6.571	
11,500.00	7,174.83	11,475.10	7,242.03	71.77	71.23	94.19	-394.77	-3,675.37	920.12	776.73	143.39	6.417	
11,600.00	7,175.01	11,575.10	7,242.00	73.38	72.85	94.18	-394.58	-3,775.37	919.14	772.52	146.62	6.269	
11,700.00	7,175.19	11,675.09	7,241.98	74.99	74.48	94.17	-394.39	-3,875.36	918.16	768.31	149.85	6.127	
11,800.00	7,175.36	11,775.09	7,241.95	76.60	76.10	94.16	-394.20	-3,975.36	917.18	764.09	153.09	5.991	
11,900.00	7,175.54	11,875.08	7,241.92	78.22	77.73	94.15	-394.01	-4,075.35	916.20	759.87	156.33	5.861	
12,000.00	7,175.72	11,975.08	7,241.90	79.83	79.36	94.15	-393.82	-4,175.35	915.22	755.65	159.58	5.735	
12,100.00	7,175.90	12,075.07	7,241.87	81.45	80.99	94.14	-393.63	-4,275.34	914.24	751.42	162.82	5.615	
12,200.00	7,176.08	12,175.07	7,241.85	83.08	82.63	94.13	-393.44	-4,375.34	913.26	747.19	166.08	5.499	
12,300.00	7,176.26	12,275.06	7,241.82	84.70	84.26	94.12	-393.25	-4,475.33	912.28	742.95	169.33	5.387	
12,400.00	7,176.44	12,375.06	7,241.80	86.32	85.90	94.11	-393.05	-4,575.33	911.30	738.71	172.59	5.280	
12,500.00	7,176.62	12,475.05	7,241.77	87.95	87.54	94.10	-392.86	-4,675.32	910.32	734.47	175.86	5.177	
12,600.00	7,176.80	12,575.05	7,241.74	89.58	89.17	94.09	-392.67	-4,775.32	909.34	730.22	179.12	5.077	
12,700.00	7,176.98	12,675.05	7,241.72	91.21	90.81	94.09	-392.48	-4,875.31	908.36	725.98	182.39	4.980	
12,800.00	7,177.16	12,775.04	7,241.69	92.84	92.46	94.08	-392.29	-4,975.31	907.38	721.73	185.66	4.887	
12,900.00	7,177.34	12,875.04	7,241.67	94.47	94.10	94.07	-392.10	-5,075.30	906.41	717.47	188.93	4.798	
13,000.00	7,177.52	12,975.03	7,241.64	96.11	95.74	94.06	-391.91	-5,175.30	905.43	713.22	192.21	4.711	
13,100.00	7,177.70	13,075.03	7,241.62	97.74	97.39	94.05	-391.72	-5,275.29	904.45	708.96	195.48	4.627	
13,200.00	7,177.88	13,175.02	7,241.59	99.38	99.03	94.04	-391.53	-5,375.29	903.47	704.70	198.76	4.545	
13,300.00	7,178.06	13,275.02	7,241.56	101.02	100.68	94.03	-391.34	-5,475.28	902.49	700.44	202.05	4.467	
13,400.00	7,178.24	13,375.01	7,241.54	102.66	102.32	94.03	-391.14	-5,575.28	901.51	696.18	205.33	4.391	
13,500.00	7,178.42	13,475.01	7,241.51	104.30	103.97	94.02	-390.95	-5,675.27	900.53	691.92	208.61	4.317	
13,600.00	7,178.60	13,575.00	7,241.49	105.94	105.62	94.01	-390.76	-5,775.27	899.55	687.65	211.90	4.245	
13,700.00	7,178.78	13,675.00	7,241.46	107.58	107.27	94.00	-390.57	-5,875.26	898.57	683.38	215.19	4.176	
13,800.00	7,178.96	13,774.99	7,241.44	109.23	108.92	93.99	-390.38	-5,975.26	897.59	679.11	218.48	4.108	
13,900.00	7,179.14	13,874.99	7,241.41	110.87	110.57	93.98	-390.19	-6,075.25	896.61	674.84	221.77	4.043	
14,000.00	7,179.32	13,974.98	7,241.38	112.51	112.22	93.97	-390.00	-6,175.25	895.63	670.57	225.06	3.979	
14,100.00	7,179.50	14,074.98	7,241.36	114.16	113.87	93.96	-389.81	-6,275.24	894.65	666.30	228.36	3.918	
14,200.00	7,179.68	14,174.97	7,241.33	115.81	115.52	93.96	-389.62	-6,375.24	893.67	662.02	231.65	3.858	
14,300.00	7,179.86	14,274.97	7,241.31	117.45	117.18	93.95	-389.42	-6,475.23	892.69	657.75	234.95	3.800	
14,400.00	7,180.04	14,374.96	7,241.28	119.10	118.83	93.94	-389.23	-6,575.23	891.71	653.47	238.25	3.743	
14,500.00	7,180.22	14,474.96	7,241.26	120.75	120.48	93.93	-389.04	-6,675.22	890.74	649.19	241.55	3.688	
14,600.00	7,180.40	14,574.95	7,241.23	122.40	122.14	93.92	-388.85	-6,775.21	889.76	644.91	244.85	3.634	
14,700.00	7,180.58	14,674.95	7,241.20	124.05	123.79	93.91	-388.66	-6,875.21	888.78	640.63	248.15	3.582	
14,800.00	7,180.76	14,774.94	7,241.18	125.70	125.45	93.90	-388.47	-6,975.20	887.80	636.35	251.45	3.531	
14,900.00	7,180.94	14,874.94	7,241.15	127.35	127.10	93.89	-388.28	-7,075.20	886.82	632.07	254.75	3.481	
15,000.00	7,181.11	14,974.93	7,241.13	129.00	128.76	93.88	-388.09	-7,175.19	885.84	627.78	258.06	3.433	
15,100.00	7,181.29	15,074.93	7,241.10	130.65	130.42	93.87	-387.90	-7,275.19	884.86	623.50	261.36	3.386	
15,200.00	7,181.47	15,174.92	7,241.08	132.31	132.07	93.87	-387.71	-7,375.18	883.88	619.21	264.67	3.340	
15,300.00	7,181.65	15,274.92	7,241.05	133.96	133.73	93.86	-387.51	-7,475.18	882.90	614.93	267.98	3.295	
15,400.00	7,181.83	15,374.91	7,241.02	135.61	135.39	93.85	-387.32	-7,575.17	881.92	610.64	271.28	3.251	
15,492.61	7,182.00	15,467.52	7,241.00	137.14	136.92	93.84	-387.15	-7,667.78	881.02	606.67	274.35	3.211 SF	

## Hewlett-Packard

### Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30B-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	179.60	-40.07	0.28	40.07					
100.00	100.00	100.00	100.00	3.28	3.28	179.60	-40.07	0.28	40.07	32.54	7.53	5.322		
200.00	200.00	200.00	200.00	3.31	3.31	179.60	-40.07	0.28	40.07	32.50	7.57	5.290		
300.00	299.98	299.38	299.38	3.35	3.35	34.28	-40.45	0.47	39.00	31.35	7.65	5.095		
400.00	399.84	398.20	398.13	3.41	3.40	36.35	-43.50	1.99	37.77	30.01	7.76	4.866		
500.00	499.45	497.07	496.77	3.49	3.48	39.12	-49.60	5.03	36.80	28.89	7.91	4.652		
600.00	598.70	596.00	595.16	3.61	3.59	42.60	-58.74	9.59	36.16	28.05	8.11	4.460		
700.00	697.47	694.98	693.19	3.76	3.72	46.71	-70.93	15.67	35.92	27.56	8.36	4.296		
702.82	700.25	697.78	695.96	3.76	3.73	46.84	-71.32	15.86	35.92	27.55	8.37	4.292 CC		
800.00	795.62	794.01	790.75	3.96	3.90	51.34	-86.16	23.26	36.16	27.46	8.69	4.160 ES		
900.00	893.16	893.10	887.71	4.20	4.12	55.72	-104.40	32.35	37.21	28.09	9.11	4.083		
1,000.00	990.62	992.18	983.90	4.49	4.39	56.44	-125.63	42.94	40.42	30.83	9.59	4.216		
1,100.00	1,088.07	1,108.58	1,079.45	4.80	4.78	53.98	-149.65	54.91	45.75	35.61	10.14	4.511		
1,200.00	1,185.52	1,208.77	1,175.35	5.13	5.15	51.50	-174.39	67.25	51.63	40.93	10.70	4.826		
1,300.00	1,282.97	1,308.97	1,271.25	5.48	5.55	49.52	-199.13	79.58	57.59	46.30	11.28	5.104		
1,400.00	1,380.43	1,390.84	1,367.15	5.85	5.89	47.92	-223.87	91.92	63.60	51.77	11.83	5.376		
1,500.00	1,477.88	1,509.36	1,463.05	6.23	6.41	46.60	-248.61	104.25	69.65	57.13	12.52	5.563		
1,600.00	1,575.33	1,609.55	1,558.95	6.62	6.86	45.48	-273.35	116.59	75.74	62.57	13.17	5.753		
1,700.00	1,672.79	1,709.75	1,654.85	7.02	7.32	44.54	-298.09	128.92	81.85	68.02	13.83	5.920		
1,800.00	1,770.24	1,809.94	1,750.75	7.42	7.77	43.72	-322.83	141.26	87.97	73.49	14.48	6.075		
1,900.00	1,867.69	1,889.86	1,846.65	7.65	7.98	43.01	-347.57	153.59	94.12	79.71	14.40	6.534		
2,000.00	1,965.14	1,989.67	1,942.55	7.70	8.07	42.39	-372.31	165.93	100.27	85.81	14.46	6.933		
2,100.00	2,062.60	2,089.47	2,038.45	7.78	8.16	41.84	-397.05	178.26	106.44	91.89	14.55	7.317		
2,200.00	2,160.05	2,189.28	2,134.35	7.87	8.27	41.35	-421.78	190.60	112.61	97.94	14.67	7.677		
2,300.00	2,257.50	2,289.08	2,230.25	7.98	8.40	40.91	-446.52	202.93	118.80	103.97	14.83	8.010		
2,400.00	2,354.95	2,388.88	2,326.15	8.11	8.56	40.52	-471.26	215.26	124.99	109.96	15.03	8.316		
2,500.00	2,452.41	2,488.69	2,422.05	8.25	8.73	40.16	-496.00	227.60	131.18	115.92	15.26	8.595		
2,600.00	2,549.86	2,588.49	2,517.95	8.41	8.93	39.84	-520.74	239.93	137.38	121.85	15.53	8.846		
2,700.00	2,647.31	2,688.30	2,613.85	8.59	9.13	39.54	-545.48	252.27	143.58	127.75	15.83	9.072		
2,800.00	2,744.76	2,788.10	2,709.75	8.78	9.36	39.27	-570.22	264.60	149.79	133.63	16.15	9.273		
2,900.00	2,842.22	2,887.91	2,805.65	8.98	9.60	39.01	-594.96	276.94	156.00	139.49	16.51	9.450		
3,000.00	2,939.67	2,987.71	2,901.55	9.20	9.85	38.78	-619.70	289.27	162.21	145.32	16.89	9.606		
3,100.00	3,037.12	3,087.52	2,997.45	9.43	10.12	38.57	-644.44	301.61	168.42	151.13	17.29	9.741		
3,200.00	3,134.58	3,187.32	3,093.35	9.66	10.40	38.37	-669.18	313.94	174.64	156.92	17.71	9.859		
3,300.00	3,232.03	3,287.13	3,189.25	9.91	10.69	38.18	-693.92	326.28	180.86	162.70	18.16	9.960		
3,400.00	3,329.48	3,386.93	3,285.15	10.17	10.99	38.01	-718.66	338.61	187.08	168.45	18.62	10.046		
3,500.00	3,426.93	3,486.74	3,381.05	10.43	11.30	37.85	-743.40	350.95	193.30	174.20	19.10	10.119		
3,600.00	3,524.39	3,586.54	3,476.95	10.71	11.61	37.70	-768.14	363.28	199.52	179.92	19.60	10.180		
3,700.00	3,621.84	3,686.35	3,572.85	10.99	11.94	37.55	-792.88	375.61	205.75	185.64	20.11	10.231		
3,800.00	3,719.29	3,786.15	3,668.75	11.27	12.27	37.42	-817.62	387.95	211.97	191.34	20.63	10.273		
3,900.00	3,816.74	3,885.96	3,764.65	11.57	12.61	37.29	-842.36	400.28	218.20	197.03	21.17	10.307		
4,000.00	3,914.20	3,985.76	3,860.55	11.87	12.95	37.17	-867.09	412.62	224.43	202.71	21.72	10.333		
4,100.00	4,011.65	4,085.57	3,956.45	12.17	13.30	37.06	-891.83	424.95	230.66	208.38	22.28	10.353		
4,200.00	4,109.10	4,185.37	4,052.35	12.48	13.66	36.95	-916.57	437.29	236.89	214.04	22.85	10.368		
4,300.00	4,206.56	4,285.18	4,148.25	12.79	14.02	36.85	-941.31	449.62	243.12	219.69	23.42	10.379		
4,400.00	4,304.01	4,384.98	4,244.15	13.11	14.38	36.75	-966.05	461.96	249.35	225.34	24.01	10.385		
4,500.00	4,401.46	4,484.79	4,340.05	13.43	14.75	36.66	-990.79	474.29	255.58	230.98	24.60	10.388		
4,600.00	4,498.91	4,584.59	4,435.95	13.76	15.12	36.57	-1,015.53	486.63	261.81	236.61	25.20	10.387		
4,700.00	4,596.37	4,684.40	4,531.85	14.09	15.50	36.49	-1,040.27	498.96	268.04	242.23	25.81	10.384		
4,800.00	4,693.82	4,784.20	4,627.75	14.42	15.88	36.41	-1,065.01	511.30	274.28	247.85	26.43	10.379		
4,900.00	4,791.27	4,884.00	4,723.65	14.75	16.26	36.33	-1,089.75	523.63	280.51	253.47	27.05	10.372		
5,000.00	4,888.72	4,983.81	4,819.55	15.09	16.64	36.26	-1,114.49	535.97	286.75	259.08	27.67	10.363		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30B-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,986.18	5,083.61	4,915.45	15.43	17.03	36.19	-1,139.23	548.30	292.98	264.68	28.30	10.353		
5,200.00	5,083.63	5,183.42	5,011.35	15.78	17.42	36.12	-1,163.97	560.63	299.22	270.28	28.93	10.342		
5,300.00	5,181.08	5,283.22	5,107.25	16.12	17.81	36.06	-1,188.71	572.97	305.45	275.88	29.57	10.329		
5,400.00	5,278.53	5,383.03	5,203.15	16.47	18.21	36.00	-1,213.45	585.30	311.69	281.48	30.21	10.316		
5,500.00	5,375.99	5,482.83	5,299.05	16.82	18.60	35.94	-1,238.19	597.64	317.93	287.07	30.86	10.302		
5,600.00	5,473.44	5,582.64	5,394.95	17.17	19.00	35.88	-1,262.93	609.97	324.16	292.65	31.51	10.287		
5,700.00	5,570.89	5,682.44	5,490.85	17.52	19.40	35.83	-1,287.67	622.31	330.40	298.24	32.16	10.272		
5,800.00	5,668.35	5,782.25	5,586.75	17.88	19.81	35.77	-1,312.40	634.64	336.64	303.82	32.82	10.257		
5,900.00	5,765.80	5,882.05	5,682.65	18.23	20.21	35.72	-1,337.14	646.98	342.88	309.40	33.48	10.241		
6,000.00	5,863.25	5,981.86	5,778.55	18.59	20.61	35.67	-1,361.88	659.31	349.11	314.97	34.14	10.225		
6,100.00	5,960.70	6,081.66	5,874.45	18.95	21.02	35.63	-1,386.62	671.65	355.35	320.55	34.81	10.209		
6,200.00	6,058.16	6,181.47	5,970.35	19.31	21.43	35.58	-1,411.36	683.98	361.59	326.12	35.47	10.193		
6,300.00	6,155.61	6,281.27	6,066.25	19.67	21.84	35.54	-1,436.10	696.32	367.83	331.69	36.14	10.177		
6,400.00	6,253.06	6,381.08	6,162.15	20.03	22.25	35.49	-1,460.84	708.65	374.07	337.25	36.81	10.161		
6,500.00	6,350.51	6,480.88	6,258.05	20.40	22.66	35.45	-1,485.58	720.98	380.31	342.82	37.49	10.145		
6,600.00	6,447.97	6,580.69	6,353.95	20.76	23.07	35.41	-1,510.32	733.32	386.55	348.38	38.16	10.129		
6,700.00	6,545.82	6,680.28	6,449.65	21.04	23.48	1.53	-1,535.01	745.63	392.52	353.83	38.69	10.145		
6,800.00	6,643.56	6,778.29	6,544.15	21.24	23.82	-38.71	-1,559.38	753.73	398.25	359.34	38.91	10.235		
6,900.00	6,738.83	6,878.32	6,640.71	21.40	24.06	-59.13	-1,584.25	747.03	404.30	365.26	39.04	10.355		
7,000.00	6,829.27	6,981.21	6,737.70	21.50	24.26	-69.75	-1,609.20	723.95	410.52	371.38	39.14	10.487		
7,100.00	6,912.66	7,087.12	6,832.45	21.56	24.42	-76.28	-1,633.54	683.68	416.69	377.46	39.23	10.622		
7,200.00	6,986.95	7,196.14	6,921.86	21.59	24.53	-80.77	-1,656.46	625.91	422.51	383.20	39.31	10.748		
7,300.00	7,050.31	7,308.21	7,002.45	21.58	24.58	-84.05	-1,677.08	551.02	427.67	388.25	39.42	10.848		
7,400.00	7,101.17	7,423.13	7,070.59	21.54	24.59	-86.49	-1,694.45	460.33	431.87	392.23	39.64	10.895		
7,500.00	7,138.29	7,540.48	7,122.76	21.46	24.55	-88.25	-1,707.68	356.23	434.80	394.77	40.03	10.861		
7,600.00	7,160.75	7,659.69	7,155.92	21.37	24.47	-89.41	-1,716.00	242.21	436.22	395.56	40.66	10.728		
7,700.00	7,168.01	7,780.01	7,167.97	21.26	24.35	-89.99	-1,718.86	122.72	435.97	394.40	41.56	10.489		
7,800.00	7,168.19	7,880.84	7,168.13	21.16	24.28	-89.99	-1,718.70	21.88	434.54	391.97	42.57	10.207		
7,900.00	7,168.37	7,980.83	7,168.27	21.19	24.28	-89.99	-1,718.53	-78.11	433.11	389.31	43.80	9.888		
8,000.00	7,168.55	8,080.82	7,168.41	21.90	24.41	-89.98	-1,718.37	-178.10	431.68	386.43	45.25	9.541		
8,100.00	7,168.73	8,180.81	7,168.56	22.80	24.81	-89.98	-1,718.20	-278.09	430.24	383.36	46.89	9.176		
8,200.00	7,168.91	8,280.80	7,168.70	23.78	25.52	-89.97	-1,718.03	-378.08	428.81	380.11	48.71	8.804		
8,300.00	7,169.09	8,380.79	7,168.84	24.84	26.41	-89.97	-1,717.87	-478.07	427.38	376.70	50.68	8.433		
8,400.00	7,169.27	8,480.78	7,168.98	25.95	27.41	-89.96	-1,717.70	-578.06	425.95	373.15	52.80	8.068		
8,500.00	7,169.45	8,580.77	7,169.12	27.12	28.49	-89.95	-1,717.53	-678.05	424.52	369.48	55.03	7.714		
8,600.00	7,169.62	8,680.76	7,169.26	28.33	29.64	-89.95	-1,717.37	-778.04	423.09	365.71	57.38	7.373		
8,700.00	7,169.80	8,780.75	7,169.40	29.59	30.83	-89.94	-1,717.20	-878.03	421.66	361.83	59.82	7.048		
8,800.00	7,169.98	8,880.74	7,169.55	30.88	32.06	-89.94	-1,717.03	-978.02	420.23	357.88	62.35	6.740		
8,900.00	7,170.16	8,980.73	7,169.69	32.21	33.33	-89.93	-1,716.87	-1,078.01	418.79	353.84	64.95	6.448		
9,000.00	7,170.34	9,080.72	7,169.83	33.56	34.64	-89.93	-1,716.70	-1,177.99	417.36	349.74	67.62	6.172		
9,100.00	7,170.52	9,180.71	7,169.97	34.94	35.97	-89.92	-1,716.53	-1,277.98	415.93	345.59	70.34	5.913		
9,200.00	7,170.70	9,280.70	7,170.11	36.35	37.33	-89.92	-1,716.37	-1,377.97	414.50	341.38	73.12	5.669		
9,300.00	7,170.88	9,380.69	7,170.25	37.77	38.72	-89.91	-1,716.20	-1,477.96	413.07	337.13	75.94	5.439		
9,400.00	7,171.06	9,480.68	7,170.39	39.22	40.12	-89.91	-1,716.03	-1,577.95	411.64	332.83	78.81	5.223		
9,500.00	7,171.24	9,580.67	7,170.53	40.68	41.55	-89.90	-1,715.87	-1,677.94	410.21	328.50	81.71	5.020		
9,600.00	7,171.42	9,680.66	7,170.68	42.15	42.99	-89.89	-1,715.70	-1,777.93	408.78	324.14	84.64	4.830		
9,700.00	7,171.60	9,780.65	7,170.82	43.64	44.45	-89.89	-1,715.53	-1,877.92	407.35	319.74	87.60	4.650		
9,800.00	7,171.78	9,880.64	7,170.96	45.14	45.92	-89.88	-1,715.37	-1,977.91	405.91	315.32	90.59	4.481		
9,900.00	7,171.95	9,980.63	7,171.10	46.65	47.40	-89.88	-1,715.20	-2,077.90	404.48	310.88	93.61	4.321		
10,000.00	7,172.13	10,080.62	7,171.24	48.18	48.90	-89.87	-1,715.03	-2,177.89	403.05	306.41	96.64	4.171		
10,100.00	7,172.31	10,180.61	7,171.38	49.71	50.40	-89.87	-1,714.87	-2,277.88	401.62	301.93	99.70	4.028		
10,200.00	7,172.49	10,280.60	7,171.52	51.25	51.92	-89.86	-1,714.70	-2,377.87	400.19	297.42	102.77	3.894		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30B-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	7,172.67	10,380.59	7,171.66	52.79	53.45	-89.85	-1,714.53	-2,477.86	398.76	292.90	105.86	3.767		
10,400.00	7,172.85	10,480.58	7,171.81	54.35	54.98	-89.85	-1,714.37	-2,577.85	397.33	288.37	108.96	3.646		
10,500.00	7,173.03	10,580.57	7,171.95	55.91	56.52	-89.84	-1,714.20	-2,677.84	395.90	283.82	112.08	3.532		
10,600.00	7,173.21	10,680.56	7,172.09	57.48	58.07	-89.84	-1,714.04	-2,777.83	394.47	279.25	115.21	3.424		
10,700.00	7,173.39	10,780.55	7,172.23	59.05	59.62	-89.83	-1,713.87	-2,877.82	393.03	274.68	118.35	3.321		
10,759.06	7,173.49	10,839.61	7,172.31	59.98	60.54	-89.83	-1,713.77	-2,936.88	392.61	272.40	120.22	3.266		
10,800.00	7,173.57	10,880.54	7,172.37	60.62	61.18	-89.83	-1,713.70	-2,977.81	393.16	271.65	121.51	3.236		
10,900.00	7,173.75	10,980.54	7,172.51	62.20	62.75	-89.82	-1,713.54	-3,077.81	394.15	269.48	124.67	3.161		
11,000.00	7,173.93	11,080.53	7,172.65	63.79	64.32	-89.82	-1,713.37	-3,177.80	395.14	267.29	127.85	3.091		
11,100.00	7,174.11	11,180.53	7,172.80	65.38	65.90	-89.81	-1,713.20	-3,277.80	396.13	265.10	131.03	3.023		
11,200.00	7,174.29	11,280.52	7,172.94	66.97	67.48	-89.81	-1,713.04	-3,377.79	397.13	262.90	134.23	2.959		
11,300.00	7,174.47	11,380.52	7,173.08	68.57	69.06	-89.80	-1,712.87	-3,477.79	398.12	260.69	137.42	2.897		
11,400.00	7,174.65	11,480.51	7,173.22	70.17	70.65	-89.80	-1,712.70	-3,577.78	399.11	258.48	140.63	2.838		
11,500.00	7,174.83	11,580.51	7,173.36	71.77	72.24	-89.79	-1,712.54	-3,677.78	400.10	256.26	143.84	2.782		
11,600.00	7,175.01	11,680.50	7,173.50	73.38	73.84	-89.79	-1,712.37	-3,777.77	401.09	254.03	147.06	2.727		
11,700.00	7,175.19	11,780.50	7,173.64	74.99	75.44	-89.78	-1,712.20	-3,877.77	402.09	251.80	150.28	2.676		
11,800.00	7,175.36	11,880.49	7,173.78	76.60	77.04	-89.78	-1,712.04	-3,977.76	403.08	249.57	153.51	2.626		
11,900.00	7,175.54	11,980.49	7,173.93	78.22	78.64	-89.77	-1,711.87	-4,077.76	404.07	247.32	156.75	2.578		
12,000.00	7,175.72	12,080.49	7,174.07	79.83	80.25	-89.77	-1,711.70	-4,177.75	405.06	245.08	159.99	2.532		
12,100.00	7,175.90	12,180.48	7,174.21	81.45	81.86	-89.76	-1,711.54	-4,277.75	406.06	242.83	163.23	2.488		
12,200.00	7,176.08	12,280.48	7,174.35	83.08	83.47	-89.76	-1,711.37	-4,377.74	407.05	240.57	166.48	2.445		
12,300.00	7,176.26	12,380.47	7,174.49	84.70	85.09	-89.75	-1,711.20	-4,477.74	408.04	238.31	169.73	2.404		
12,400.00	7,176.44	12,480.47	7,174.63	86.32	86.70	-89.75	-1,711.04	-4,577.73	409.03	236.05	172.98	2.365		
12,500.00	7,176.62	12,580.46	7,174.77	87.95	88.32	-89.74	-1,710.87	-4,677.73	410.02	233.79	176.24	2.327		
12,600.00	7,176.80	12,680.46	7,174.91	89.58	89.94	-89.74	-1,710.70	-4,777.72	411.02	231.52	179.50	2.290		
12,700.00	7,176.98	12,780.45	7,175.06	91.21	91.57	-89.73	-1,710.54	-4,877.71	412.01	229.24	182.76	2.254		
12,800.00	7,177.16	12,880.45	7,175.20	92.84	93.19	-89.73	-1,710.37	-4,977.71	413.00	226.97	186.03	2.220		
12,900.00	7,177.34	12,980.44	7,175.34	94.47	94.82	-89.72	-1,710.20	-5,077.70	413.99	224.69	189.30	2.187		
13,000.00	7,177.52	13,080.44	7,175.48	96.11	96.44	-89.72	-1,710.04	-5,177.70	414.98	222.41	192.57	2.155		
13,100.00	7,177.70	13,180.43	7,175.62	97.74	98.07	-89.71	-1,709.87	-5,277.69	415.98	220.13	195.85	2.124		
13,200.00	7,177.88	13,280.43	7,175.76	99.38	99.70	-89.71	-1,709.70	-5,377.69	416.97	217.84	199.12	2.094		
13,300.00	7,178.06	13,380.42	7,175.90	101.02	101.33	-89.71	-1,709.54	-5,477.68	417.96	215.56	202.40	2.065		
13,400.00	7,178.24	13,480.42	7,176.05	102.66	102.97	-89.70	-1,709.37	-5,577.68	418.95	213.27	205.68	2.037		
13,500.00	7,178.42	13,580.41	7,176.19	104.30	104.60	-89.70	-1,709.20	-5,677.67	419.94	210.98	208.97	2.010		
13,600.00	7,178.60	13,680.41	7,176.33	105.94	106.23	-89.69	-1,709.04	-5,777.67	420.94	208.68	212.25	1.983		
13,700.00	7,178.78	13,780.40	7,176.47	107.58	107.87	-89.69	-1,708.87	-5,877.66	421.93	206.39	215.54	1.958		
13,800.00	7,178.96	13,880.40	7,176.61	109.23	109.51	-89.68	-1,708.70	-5,977.66	422.92	204.09	218.83	1.933		
13,900.00	7,179.14	13,980.39	7,176.75	110.87	111.15	-89.68	-1,708.54	-6,077.65	423.91	201.79	222.12	1.909		
14,000.00	7,179.32	14,080.39	7,176.89	112.51	112.78	-89.67	-1,708.37	-6,177.65	424.90	199.49	225.41	1.885		
14,100.00	7,179.50	14,180.38	7,177.03	114.16	114.42	-89.67	-1,708.20	-6,277.64	425.90	197.19	228.70	1.862		
14,200.00	7,179.68	14,280.38	7,177.18	115.81	116.07	-89.67	-1,708.04	-6,377.64	426.89	194.89	232.00	1.840		
14,300.00	7,179.86	14,380.37	7,177.32	117.45	117.71	-89.66	-1,707.87	-6,477.63	427.88	192.59	235.30	1.818		
14,400.00	7,180.04	14,480.37	7,177.46	119.10	119.35	-89.66	-1,707.70	-6,577.63	428.87	190.28	238.59	1.798		
14,500.00	7,180.22	14,580.36	7,177.60	120.75	120.99	-89.65	-1,707.54	-6,677.62	429.86	187.97	241.89	1.777		
14,600.00	7,180.40	14,680.36	7,177.74	122.40	122.64	-89.65	-1,707.37	-6,777.62	430.86	185.66	245.19	1.757		
14,700.00	7,180.58	14,780.35	7,177.88	124.05	124.28	-89.64	-1,707.20	-6,877.61	431.85	183.35	248.49	1.738		
14,800.00	7,180.76	14,880.35	7,178.02	125.70	125.93	-89.64	-1,707.04	-6,977.61	432.84	181.04	251.80	1.719		
14,900.00	7,180.94	14,980.34	7,178.17	127.35	127.57	-89.64	-1,706.87	-7,077.60	433.83	178.73	255.10	1.701		
15,000.00	7,181.11	15,080.34	7,178.31	129.00	129.22	-89.63	-1,706.70	-7,177.60	434.82	176.42	258.41	1.683		
15,100.00	7,181.29	15,180.33	7,178.45	130.65	130.87	-89.63	-1,706.54	-7,277.59	435.82	174.11	261.71	1.665		
15,200.00	7,181.47	15,280.33	7,178.59	132.31	132.52	-89.62	-1,706.37	-7,377.59	436.81	171.79	265.02	1.648		
15,300.00	7,181.65	15,380.32	7,178.73	133.96	134.17	-89.62	-1,706.21	-7,477.58	437.80	169.48	268.33	1.632		



Hewlett-Packard  
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 5N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RIB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RIB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 5N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design	5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30B-M - Wellbore #1 - Design #1											Offset Site Error:	0.00 usft
Survey Program:	0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,400.00	7,181.83	15,480.32	7,178.87	135.61	135.82	-89.61	-1,706.04	-7,577.58	438.79	167.16	271.63	1.615	
15,492.61	7,182.00	15,572.92	7,179.00	137.14	137.34	-89.61	-1,705.88	-7,670.18	439.71	165.01	274.70	1.601 SF	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30C-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	179.20	-20.04	0.28	20.04					
100.00	100.00	100.00	100.00	3.28	3.28	179.20	-20.04	0.28	20.04	12.51	7.53	2.662		
200.00	200.00	200.00	200.00	3.31	3.31	179.20	-20.04	0.28	20.04	12.46	7.57	2.646	CC	
300.00	299.98	299.39	299.37	3.35	3.35	33.06	-21.53	1.13	20.09	12.44	7.65	2.626		
400.00	399.84	398.78	398.62	3.41	3.41	33.96	-26.03	3.69	20.25	12.49	7.76	2.610		
500.00	499.45	498.17	497.63	3.49	3.49	35.42	-33.51	7.95	20.52	12.62	7.91	2.596		
600.00	598.70	597.56	596.29	3.61	3.60	37.41	-43.97	13.90	20.93	12.83	8.10	2.583		
700.00	697.47	696.95	694.46	3.76	3.75	39.84	-57.40	21.55	21.49	13.13	8.36	2.572		
800.00	795.62	796.34	792.05	3.96	3.95	42.63	-73.78	30.87	22.22	13.54	8.68	2.561		
900.00	893.16	895.73	888.91	4.20	4.19	44.88	-93.09	41.87	23.47	14.40	9.07	2.587		
1,000.00	990.62	995.56	985.66	4.49	4.49	44.01	-114.49	54.05	26.25	16.72	9.53	2.754		
1,100.00	1,088.07	1,104.48	1,082.51	4.80	4.85	43.22	-135.98	66.28	29.09	19.03	10.07	2.890		
1,200.00	1,185.52	1,204.52	1,179.36	5.13	5.20	42.58	-157.47	78.51	31.93	21.32	10.61	3.009		
1,300.00	1,282.97	1,304.56	1,276.22	5.48	5.58	42.03	-178.95	90.74	34.78	23.59	11.19	3.109		
1,400.00	1,380.43	1,404.60	1,373.07	5.85	5.97	41.57	-200.44	102.97	37.63	25.84	11.79	3.193		
1,500.00	1,477.88	1,504.64	1,469.92	6.23	6.38	41.18	-221.93	115.20	40.48	28.07	12.41	3.263		
1,600.00	1,575.33	1,604.68	1,566.78	6.62	6.80	40.83	-243.41	127.43	43.33	30.29	13.05	3.322		
1,700.00	1,672.79	1,704.73	1,663.63	7.02	7.22	40.53	-264.90	139.66	46.19	32.49	13.70	3.372		
1,800.00	1,770.24	1,804.77	1,760.48	7.42	7.65	40.27	-286.38	151.89	49.04	34.69	14.36	3.416		
1,900.00	1,867.69	1,904.81	1,857.34	7.65	7.88	40.03	-307.87	164.12	51.90	37.58	14.32	3.624		
2,000.00	1,965.14	2,004.85	1,954.19	7.70	7.95	39.82	-329.36	176.35	54.76	40.38	14.38	3.808		
2,100.00	2,062.60	2,104.89	2,051.04	7.78	8.03	39.63	-350.84	188.59	57.61	43.13	14.48	3.979		
2,200.00	2,160.05	2,204.93	2,147.90	7.87	8.13	39.45	-372.33	200.82	60.47	45.86	14.61	4.138		
2,300.00	2,257.50	2,295.03	2,244.75	7.98	8.24	39.30	-393.82	213.05	63.33	48.56	14.77	4.287		
2,400.00	2,354.95	2,405.01	2,341.60	8.11	8.40	39.15	-415.30	225.28	66.19	51.20	14.99	4.416		
2,500.00	2,452.41	2,505.05	2,438.46	8.25	8.56	39.02	-436.79	237.51	69.05	53.82	15.23	4.535		
2,600.00	2,549.86	2,605.09	2,535.31	8.41	8.73	38.90	-458.28	249.74	71.91	56.41	15.49	4.641		
2,700.00	2,647.31	2,694.86	2,632.16	8.59	8.90	38.79	-479.76	261.97	74.77	58.99	15.78	4.739		
2,800.00	2,744.76	2,794.82	2,729.02	8.78	9.11	38.69	-501.25	274.20	77.63	61.53	16.10	4.822		
2,900.00	2,842.22	2,905.22	2,825.87	8.98	9.35	38.59	-522.73	286.43	80.49	64.02	16.47	4.887		
3,000.00	2,939.67	3,005.26	2,922.72	9.20	9.58	38.50	-544.22	298.66	83.35	66.51	16.85	4.948		
3,100.00	3,037.12	3,105.30	3,019.58	9.43	9.82	38.42	-565.71	310.89	86.21	68.97	17.24	5.000		
3,200.00	3,134.58	3,205.34	3,116.43	9.66	10.08	38.34	-587.19	323.12	89.07	71.41	17.66	5.043		
3,300.00	3,232.03	3,305.38	3,213.28	9.91	10.35	38.26	-608.68	335.35	91.94	73.83	18.10	5.079		
3,400.00	3,329.48	3,405.42	3,310.14	10.17	10.62	38.19	-630.17	347.59	94.80	76.24	18.56	5.108		
3,500.00	3,426.93	3,505.46	3,406.99	10.43	10.90	38.13	-651.65	359.82	97.66	78.63	19.03	5.132		
3,600.00	3,524.39	3,594.50	3,503.84	10.71	11.16	38.07	-673.14	372.05	100.52	81.03	19.49	5.157		
3,700.00	3,621.84	3,705.55	3,600.69	10.99	11.50	38.01	-694.63	384.28	103.38	83.36	20.02	5.164		
3,800.00	3,719.29	3,805.59	3,697.55	11.27	11.80	37.95	-716.11	396.51	106.24	85.71	20.54	5.173		
3,900.00	3,816.74	3,894.37	3,794.40	11.57	12.08	37.90	-737.60	408.74	109.11	88.07	21.03	5.187		
4,000.00	3,914.20	4,005.67	3,891.25	11.87	12.43	37.85	-759.08	420.97	111.97	90.37	21.60	5.183		
4,100.00	4,011.65	4,105.71	3,988.11	12.17	12.76	37.81	-780.57	433.20	114.83	92.68	22.15	5.183		
4,200.00	4,109.10	4,194.25	4,084.96	12.48	13.05	37.76	-802.06	445.43	117.69	95.01	22.68	5.190		
4,300.00	4,206.56	4,294.21	4,181.81	12.79	13.38	37.72	-823.54	457.66	120.56	97.31	23.25	5.186		
4,400.00	4,304.01	4,405.83	4,278.67	13.11	13.76	37.68	-845.03	469.89	123.42	99.56	23.86	5.173		
4,500.00	4,401.46	4,505.87	4,375.52	13.43	14.10	37.64	-866.52	482.12	126.28	101.84	24.44	5.167		
4,600.00	4,498.91	4,594.08	4,472.37	13.76	14.40	37.60	-888.00	494.35	129.14	104.15	24.99	5.167		
4,700.00	4,596.37	4,694.04	4,569.23	14.09	14.75	37.57	-909.49	506.59	132.01	106.42	25.59	5.158		
4,800.00	4,693.82	4,806.00	4,666.08	14.42	15.14	37.53	-930.98	518.82	134.87	108.64	26.23	5.142		
4,900.00	4,791.27	4,906.04	4,762.93	14.75	15.50	37.50	-952.46	531.05	137.73	110.89	26.84	5.132		
5,000.00	4,888.72	4,993.92	4,859.79	15.09	15.81	37.47	-973.95	543.28	140.59	113.18	27.42	5.128		
5,100.00	4,986.18	5,093.88	4,956.64	15.43	16.17	37.44	-995.43	555.51	143.46	115.42	28.03	5.117		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30C-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,083.63	5,206.16	5,053.49	15.78	16.58	37.41	-1,016.92	567.74	146.32	117.62	28.70	5.099	
5,300.00	5,181.08	5,306.20	5,150.35	16.12	16.95	37.38	-1,038.41	579.97	149.18	119.86	29.33	5.087	
5,400.00	5,278.53	5,406.24	5,247.20	16.47	17.32	37.36	-1,059.89	592.20	152.05	122.09	29.96	5.075	
5,500.00	5,375.99	5,506.28	5,344.05	16.82	17.68	37.33	-1,081.38	604.43	154.91	124.32	30.59	5.064	
5,600.00	5,473.44	5,606.33	5,440.91	17.17	18.06	37.31	-1,102.87	616.66	157.77	126.54	31.23	5.052	
5,700.00	5,570.89	5,706.37	5,537.76	17.52	18.43	37.28	-1,124.35	628.89	160.64	128.76	31.88	5.040	
5,800.00	5,668.35	5,806.41	5,634.61	17.88	18.80	37.26	-1,145.84	641.12	163.50	130.98	32.52	5.028	
5,900.00	5,765.80	5,906.45	5,731.47	18.23	19.18	37.24	-1,167.33	653.35	166.36	133.19	33.17	5.015	
6,000.00	5,863.25	6,006.49	5,828.32	18.59	19.56	37.22	-1,188.81	665.59	169.22	135.40	33.82	5.004	
6,100.00	5,960.70	6,106.53	5,925.17	18.95	19.94	37.20	-1,210.30	677.82	172.09	137.61	34.48	4.992	
6,200.00	6,058.16	6,193.43	6,022.03	19.31	20.27	37.18	-1,231.78	690.05	174.95	139.86	35.09	4.986	
6,300.00	6,155.61	6,306.61	6,118.88	19.67	20.70	37.16	-1,253.27	702.28	177.81	142.02	35.79	4.968	
6,400.00	6,253.06	6,406.65	6,215.73	20.03	21.08	37.14	-1,274.76	714.51	180.68	144.23	36.45	4.957	
6,500.00	6,350.51	6,506.69	6,312.58	20.40	21.47	37.12	-1,296.24	726.74	183.54	146.43	37.11	4.945	
6,600.00	6,447.97	6,593.26	6,409.44	20.76	21.80	37.10	-1,317.73	738.97	186.40	148.67	37.73	4.940	
6,700.00	6,545.82	6,693.02	6,506.09	21.04	22.19	2.20	-1,339.17	751.18	188.89	150.74	38.15	4.951	
6,800.00	6,643.56	6,791.71	6,601.99	21.24	22.50	-41.08	-1,360.44	760.10	191.42	153.36	38.06	5.030	
6,900.00	6,738.83	6,892.73	6,700.36	21.40	22.73	-64.62	-1,382.24	754.41	195.30	157.37	37.94	5.148	
7,000.00	6,829.27	6,996.83	6,799.50	21.50	22.91	-78.12	-1,404.17	731.97	200.36	162.51	37.85	5.294	
7,100.00	6,912.66	7,104.20	6,896.61	21.56	23.05	-87.20	-1,425.63	691.83	206.20	168.48	37.73	5.466	
7,200.00	6,986.95	7,214.88	6,988.35	21.59	23.13	-93.86	-1,445.88	633.60	212.33	174.81	37.51	5.660	
7,300.00	7,050.31	7,328.78	7,071.04	21.58	23.17	-98.90	-1,464.08	557.64	218.17	180.94	37.22	5.861	
7,400.00	7,101.17	7,445.62	7,140.77	21.54	23.16	-102.68	-1,479.39	465.35	223.16	186.20	36.96	6.038	
7,500.00	7,138.29	7,564.92	7,193.77	21.46	23.09	-105.38	-1,490.97	359.30	226.79	189.88	36.91	6.144	
7,600.00	7,160.75	7,685.99	7,226.89	21.37	22.99	-107.09	-1,498.13	243.26	228.65	191.40	37.25	6.139	
7,700.00	7,168.01	7,807.97	7,238.00	21.26	22.87	-107.84	-1,500.40	121.99	228.48	190.44	38.05	6.005	
7,800.00	7,168.19	7,907.85	7,237.87	21.16	22.78	-107.88	-1,500.21	22.11	227.01	188.16	38.85	5.843	
7,900.00	7,168.37	8,007.84	7,237.74	21.19	22.77	-107.91	-1,500.03	-77.88	225.53	185.64	39.90	5.653	
8,000.00	7,168.55	8,107.83	7,237.61	21.90	23.04	-107.95	-1,499.84	-177.87	224.06	182.88	41.18	5.441	
8,100.00	7,168.73	8,207.82	7,237.48	22.80	23.74	-107.99	-1,499.65	-277.86	222.58	179.92	42.66	5.217	
8,200.00	7,168.91	8,307.80	7,237.35	23.78	24.64	-108.03	-1,499.47	-377.84	221.11	176.77	44.34	4.987	
8,300.00	7,169.09	8,407.79	7,237.23	24.84	25.64	-108.07	-1,499.28	-477.83	219.63	173.45	46.18	4.756	
8,400.00	7,169.27	8,507.78	7,237.10	25.95	26.72	-108.12	-1,499.09	-577.82	218.16	169.99	48.17	4.529	
8,500.00	7,169.45	8,607.77	7,236.97	27.12	27.85	-108.16	-1,498.91	-677.81	216.68	166.40	50.28	4.309	
8,600.00	7,169.62	8,707.76	7,236.84	28.33	29.03	-108.20	-1,498.72	-777.80	215.21	162.70	52.51	4.098	
8,700.00	7,169.80	8,807.75	7,236.71	29.59	30.25	-108.24	-1,498.53	-877.79	213.73	158.89	54.84	3.897	
8,800.00	7,169.98	8,907.74	7,236.59	30.88	31.52	-108.29	-1,498.35	-977.78	212.26	155.00	57.25	3.707	
8,900.00	7,170.16	9,007.73	7,236.46	32.21	32.82	-108.33	-1,498.16	-1,077.77	210.78	151.04	59.74	3.528	
9,000.00	7,170.34	9,107.72	7,236.33	33.56	34.15	-108.38	-1,497.97	-1,177.75	209.31	147.01	62.30	3.360	
9,100.00	7,170.52	9,207.71	7,236.20	34.94	35.50	-108.42	-1,497.79	-1,277.74	207.84	142.92	64.91	3.202	
9,200.00	7,170.70	9,307.69	7,236.07	36.35	36.88	-108.47	-1,497.60	-1,377.73	206.36	138.78	67.58	3.054	
9,300.00	7,170.88	9,407.68	7,235.94	37.77	38.29	-108.52	-1,497.41	-1,477.72	204.89	134.60	70.29	2.915	
9,400.00	7,171.06	9,507.67	7,235.82	39.22	39.71	-108.56	-1,497.23	-1,577.71	203.41	130.37	73.04	2.785	
9,500.00	7,171.24	9,607.66	7,235.69	40.68	41.15	-108.61	-1,497.04	-1,677.70	201.94	126.11	75.83	2.663	
9,600.00	7,171.42	9,707.65	7,235.56	42.15	42.61	-108.66	-1,496.85	-1,777.69	200.47	121.82	78.64	2.549	
9,700.00	7,171.60	9,807.64	7,235.43	43.64	44.09	-108.71	-1,496.67	-1,877.68	198.99	117.51	81.49	2.442	
9,800.00	7,171.78	9,907.63	7,235.30	45.14	45.57	-108.76	-1,496.48	-1,977.66	197.52	113.16	84.36	2.341	
9,900.00	7,171.95	10,007.62	7,235.17	46.65	47.07	-108.81	-1,496.29	-2,077.65	196.05	108.80	87.25	2.247	
10,000.00	7,172.13	10,107.61	7,235.05	48.18	48.58	-108.87	-1,496.11	-2,177.64	194.57	104.42	90.16	2.158	
10,100.00	7,172.31	10,207.60	7,234.92	49.71	50.10	-108.92	-1,495.92	-2,277.63	193.10	100.01	93.09	2.074	
10,200.00	7,172.49	10,307.58	7,234.79	51.25	51.62	-108.97	-1,495.73	-2,377.62	191.63	95.60	96.03	1.995	
10,300.00	7,172.67	10,407.57	7,234.66	52.79	53.16	-109.03	-1,495.55	-2,477.61	190.16	91.17	98.99	1.921	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30C-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,400.00	7,172.85	10,507.56	7,234.53	54.35	54.70	-109.08	-1,495.36	-2,577.60	188.68	86.72	101.96	1.851	
10,500.00	7,173.03	10,607.55	7,234.40	55.91	56.25	-109.14	-1,495.17	-2,677.59	187.21	82.27	104.94	1.784	
10,600.00	7,173.21	10,707.54	7,234.28	57.48	57.81	-109.20	-1,494.99	-2,777.57	185.74	77.81	107.93	1.721	
10,700.00	7,173.39	10,807.53	7,234.15	59.05	59.37	-109.25	-1,494.80	-2,877.56	184.27	73.33	110.94	1.661	
10,764.33	7,173.50	10,871.86	7,234.07	60.06	60.38	-109.24	-1,494.68	-2,941.89	183.80	70.89	112.90	1.628	
10,800.00	7,173.57	10,907.53	7,234.02	60.62	60.94	-109.15	-1,494.61	-2,977.56	184.27	70.23	114.04	1.616	
10,900.00	7,173.75	11,007.52	7,233.89	62.20	62.52	-108.96	-1,494.43	-3,077.55	185.08	67.88	117.21	1.579	
11,000.00	7,173.93	11,107.52	7,233.76	63.79	64.10	-108.78	-1,494.24	-3,177.55	185.90	65.52	120.38	1.544	
11,100.00	7,174.11	11,207.51	7,233.63	65.38	65.68	-108.59	-1,494.05	-3,277.54	186.73	63.15	123.57	1.511	
11,200.00	7,174.29	11,307.50	7,233.51	66.97	67.27	-108.41	-1,493.87	-3,377.54	187.55	60.78	126.77	1.479 Level 3	
11,300.00	7,174.47	11,407.50	7,233.38	68.57	68.86	-108.23	-1,493.68	-3,477.53	188.38	58.39	129.98	1.449 Level 3	
11,400.00	7,174.65	11,507.49	7,233.25	70.17	70.46	-108.05	-1,493.49	-3,577.53	189.20	56.00	133.20	1.420 Level 3	
11,500.00	7,174.83	11,607.49	7,233.12	71.77	72.05	-107.87	-1,493.31	-3,677.52	190.03	53.60	136.43	1.393 Level 3	
11,600.00	7,175.01	11,707.48	7,232.99	73.38	73.66	-107.69	-1,493.12	-3,777.52	190.86	51.20	139.67	1.367 Level 3	
11,700.00	7,175.19	11,807.48	7,232.86	74.99	75.26	-107.51	-1,492.93	-3,877.51	191.70	48.79	142.91	1.341 Level 3	
11,800.00	7,175.36	11,907.47	7,232.74	76.60	76.87	-107.34	-1,492.75	-3,977.50	192.53	46.37	146.16	1.317 Level 3	
11,900.00	7,175.54	12,007.47	7,232.61	78.22	78.48	-107.17	-1,492.56	-4,077.50	193.37	43.95	149.42	1.294 Level 3	
12,000.00	7,175.72	12,107.46	7,232.48	79.83	80.09	-106.99	-1,492.37	-4,177.49	194.21	41.53	152.68	1.272 Level 3	
12,100.00	7,175.90	12,207.46	7,232.35	81.45	81.71	-106.82	-1,492.19	-4,277.49	195.05	39.10	155.95	1.251 Level 3	
12,200.00	7,176.08	12,307.45	7,232.22	83.08	83.32	-106.66	-1,492.00	-4,377.48	195.89	36.66	159.22	1.230 Level 2	
12,300.00	7,176.26	12,407.45	7,232.09	84.70	84.94	-106.49	-1,491.81	-4,477.48	196.73	34.23	162.51	1.211 Level 2	
12,400.00	7,176.44	12,507.44	7,231.97	86.32	86.56	-106.32	-1,491.63	-4,577.47	197.58	31.79	165.79	1.192 Level 2	
12,500.00	7,176.62	12,607.44	7,231.84	87.95	88.19	-106.16	-1,491.44	-4,677.47	198.42	29.34	169.08	1.174 Level 2	
12,600.00	7,176.80	12,707.43	7,231.71	89.58	89.81	-106.00	-1,491.25	-4,777.46	199.27	26.89	172.38	1.156 Level 2	
12,700.00	7,176.98	12,807.43	7,231.58	91.21	91.44	-105.83	-1,491.06	-4,877.46	200.12	24.44	175.68	1.139 Level 2	
12,800.00	7,177.16	12,907.42	7,231.45	92.84	93.06	-105.67	-1,490.88	-4,977.45	200.97	21.99	178.98	1.123 Level 2	
12,900.00	7,177.34	13,007.42	7,231.33	94.47	94.69	-105.52	-1,490.69	-5,077.44	201.83	19.54	182.29	1.107 Level 2	
13,000.00	7,177.52	13,107.41	7,231.20	96.11	96.32	-105.36	-1,490.50	-5,177.44	202.68	17.08	185.61	1.092 Level 2	
13,100.00	7,177.70	13,207.41	7,231.07	97.74	97.96	-105.20	-1,490.32	-5,277.43	203.54	14.62	188.92	1.077 Level 2	
13,200.00	7,177.88	13,307.40	7,230.94	99.38	99.59	-105.05	-1,490.13	-5,377.43	204.40	12.16	192.24	1.063 Level 2	
13,300.00	7,178.06	13,407.40	7,230.81	101.02	101.23	-104.89	-1,489.94	-5,477.42	205.26	9.69	195.56	1.050 Level 2	
13,400.00	7,178.24	13,507.39	7,230.68	102.66	102.86	-104.74	-1,489.76	-5,577.42	206.12	7.23	198.89	1.036 Level 2	
13,500.00	7,178.42	13,607.39	7,230.56	104.30	104.50	-104.59	-1,489.57	-5,677.41	206.98	4.76	202.22	1.024 Level 2	
13,600.00	7,178.60	13,707.38	7,230.43	105.94	106.14	-104.44	-1,489.38	-5,777.41	207.84	2.29	205.55	1.011 Level 2	
13,700.00	7,178.78	13,807.38	7,230.30	107.58	107.78	-104.29	-1,489.20	-5,877.40	208.71	-0.18	208.89	0.999 Level 1	
13,800.00	7,178.96	13,907.37	7,230.17	109.23	109.42	-104.15	-1,489.01	-5,977.40	209.57	-2.65	212.23	0.987 Level 1	
13,900.00	7,179.14	14,007.36	7,230.04	110.87	111.06	-104.00	-1,488.82	-6,077.39	210.44	-5.13	215.57	0.976 Level 1	
14,000.00	7,179.32	14,107.36	7,229.91	112.51	112.70	-103.85	-1,488.64	-6,177.38	211.31	-7.60	218.91	0.965 Level 1	
14,100.00	7,179.50	14,207.35	7,229.79	114.16	114.34	-103.71	-1,488.45	-6,277.38	212.18	-10.08	222.26	0.955 Level 1	
14,200.00	7,179.68	14,307.35	7,229.66	115.81	115.98	-103.57	-1,488.26	-6,377.37	213.05	-12.55	225.60	0.944 Level 1	
14,300.00	7,179.86	14,407.34	7,229.53	117.45	117.63	-103.43	-1,488.08	-6,477.37	213.93	-15.03	228.95	0.934 Level 1	
14,400.00	7,180.04	14,507.34	7,229.40	119.10	119.27	-103.29	-1,487.89	-6,577.36	214.80	-17.50	232.31	0.925 Level 1	
14,500.00	7,180.22	14,607.33	7,229.27	120.75	120.92	-103.15	-1,487.70	-6,677.36	215.68	-19.98	235.66	0.915 Level 1	
14,600.00	7,180.40	14,707.33	7,229.14	122.40	122.57	-103.01	-1,487.52	-6,777.35	216.55	-22.46	239.01	0.906 Level 1	
14,700.00	7,180.58	14,807.32	7,229.02	124.05	124.21	-102.87	-1,487.33	-6,877.35	217.43	-24.94	242.37	0.897 Level 1	
14,800.00	7,180.76	14,907.32	7,228.89	125.70	125.86	-102.74	-1,487.14	-6,977.34	218.31	-27.42	245.73	0.888 Level 1	
14,900.00	7,180.94	15,007.31	7,228.76	127.35	127.51	-102.60	-1,486.96	-7,077.34	219.19	-29.90	249.09	0.880 Level 1	
15,000.00	7,181.11	15,107.31	7,228.63	129.00	129.16	-102.47	-1,486.77	-7,177.33	220.07	-32.38	252.45	0.872 Level 1	
15,100.00	7,181.29	15,207.30	7,228.50	130.65	130.81	-102.34	-1,486.58	-7,277.32	220.96	-34.86	255.82	0.864 Level 1	
15,200.00	7,181.47	15,307.30	7,228.37	132.31	132.46	-102.21	-1,486.40	-7,377.32	221.84	-37.34	259.18	0.856 Level 1	
15,300.00	7,181.65	15,407.29	7,228.25	133.96	134.11	-102.08	-1,486.21	-7,477.31	222.72	-39.82	262.55	0.848 Level 1	
15,400.00	7,181.83	15,507.29	7,228.12	135.61	135.76	-101.95	-1,486.02	-7,577.31	223.61	-42.30	265.92	0.841 Level 1	

Hewlett-Packard  
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 5N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RIB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RIB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 5N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design	5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30C-M - Wellbore #1 - Design #1											Offset Site Error:	0.00 usft
Survey Program:	0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,492.61	7,182.00	15,599.89	7,228.00	137.14	137.29	-101.83	-1,485.85	-7,669.91	224.43	-44.60	269.03	0.834	Level 1, ES, SF

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 40N-27B-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-98.02	-21.13	-149.89	151.37					
100.00	100.00	101.00	101.00	3.28	3.28	-98.02	-21.13	-149.89	151.37	143.85	7.53	20.106		
200.00	200.00	201.00	201.00	3.31	3.31	-98.02	-21.13	-149.89	151.37	143.80	7.57	19.985	CC, ES	
300.00	299.98	299.99	299.97	3.35	3.34	115.45	-22.87	-149.98	152.46	144.81	7.65	19.922		
400.00	399.84	398.92	398.76	3.41	3.40	115.25	-28.02	-150.24	155.70	147.93	7.77	20.045		
500.00	499.45	497.71	497.18	3.49	3.49	114.93	-36.57	-150.66	161.09	153.15	7.94	20.301		
600.00	598.70	596.30	595.04	3.61	3.59	114.53	-48.46	-151.25	168.63	160.46	8.16	20.656		
700.00	697.47	694.62	692.17	3.76	3.74	114.05	-63.67	-152.01	178.29	169.83	8.46	21.070		
800.00	795.62	792.60	788.39	3.96	3.93	113.53	-82.13	-152.93	190.08	181.24	8.84	21.502		
900.00	893.16	908.72	884.78	4.20	4.20	113.22	-103.19	-153.98	203.61	194.26	9.35	21.783		
1,000.00	990.62	1,009.67	981.52	4.49	4.48	113.11	-124.46	-155.04	217.32	207.44	9.88	21.990		
1,100.00	1,088.07	1,089.39	1,078.26	4.80	4.71	113.01	-145.74	-156.10	231.04	220.63	10.41	22.201		
1,200.00	1,185.52	1,188.44	1,174.99	5.13	5.02	112.93	-167.02	-157.16	244.75	233.72	11.03	22.197		
1,300.00	1,282.97	1,287.50	1,271.73	5.48	5.34	112.86	-188.30	-158.22	258.47	246.79	11.68	22.127		
1,400.00	1,380.43	1,386.55	1,368.47	5.85	5.68	112.79	-209.58	-159.28	272.18	259.82	12.37	22.012		
1,500.00	1,477.88	1,485.61	1,465.20	6.23	6.03	112.73	-230.85	-160.33	285.90	272.83	13.07	21.869		
1,600.00	1,575.33	1,584.66	1,561.94	6.62	6.39	112.67	-252.13	-161.39	299.61	285.81	13.80	21.709		
1,700.00	1,672.79	1,683.72	1,658.67	7.02	6.76	112.62	-273.41	-162.45	313.33	298.79	14.55	21.540		
1,800.00	1,770.24	1,782.77	1,755.41	7.42	7.14	112.57	-294.69	-163.51	327.05	311.74	15.31	21.367		
1,900.00	1,867.69	1,881.82	1,852.15	7.85	7.38	112.53	-315.97	-164.57	340.77	325.39	15.38	22.158		
2,000.00	1,965.14	1,980.88	1,948.88	7.70	7.46	112.49	-337.24	-165.63	354.48	338.97	15.51	22.857		
2,100.00	2,062.60	2,079.93	2,045.62	7.78	7.53	112.46	-358.52	-166.69	368.20	352.56	15.64	23.535		
2,200.00	2,160.05	2,178.99	2,142.36	7.87	7.61	112.42	-379.80	-167.75	381.92	366.10	15.82	24.146		
2,300.00	2,257.50	2,278.04	2,239.09	7.98	7.72	112.39	-401.08	-168.81	395.64	379.61	16.03	24.688		
2,400.00	2,354.95	2,377.10	2,335.83	8.11	7.84	112.36	-422.36	-169.87	409.35	393.08	16.27	25.162		
2,500.00	2,452.41	2,476.15	2,432.56	8.25	7.97	112.33	-443.63	-170.93	423.07	406.53	16.54	25.572		
2,600.00	2,549.86	2,575.21	2,529.30	8.41	8.13	112.31	-464.91	-171.99	436.79	419.94	16.85	25.921		
2,700.00	2,647.31	2,674.26	2,626.04	8.59	8.29	112.28	-486.19	-173.05	450.51	433.32	17.19	26.213		
2,800.00	2,744.76	2,773.31	2,722.77	8.78	8.48	112.26	-507.47	-174.11	464.22	446.67	17.55	26.451		
2,900.00	2,842.22	2,872.37	2,819.51	8.98	8.67	112.24	-528.74	-175.17	477.94	460.00	17.94	26.641		
3,000.00	2,939.67	2,971.42	2,916.25	9.20	8.87	112.22	-550.02	-176.23	491.66	473.31	18.35	26.788		
3,100.00	3,037.12	3,070.48	3,012.98	9.43	9.09	112.20	-571.30	-177.29	505.38	486.59	18.79	26.896		
3,200.00	3,134.58	3,169.53	3,109.72	9.66	9.32	112.18	-592.58	-178.34	519.10	499.85	19.25	26.970		
3,300.00	3,232.03	3,268.59	3,206.45	9.91	9.56	112.17	-613.86	-179.40	532.82	513.09	19.72	27.013		
3,400.00	3,329.48	3,367.64	3,303.19	10.17	9.80	112.15	-635.13	-180.46	546.53	526.32	20.22	27.031		
3,500.00	3,426.93	3,466.70	3,399.93	10.43	10.06	112.13	-656.41	-181.52	560.25	539.52	20.73	27.025		
3,600.00	3,524.39	3,565.75	3,496.66	10.71	10.32	112.12	-677.69	-182.58	573.97	552.71	21.26	27.001		
3,700.00	3,621.84	3,664.80	3,593.40	10.99	10.59	112.11	-698.97	-183.64	587.69	565.89	21.80	26.959		
3,800.00	3,719.29	3,763.86	3,690.14	11.27	10.86	112.09	-720.25	-184.70	601.41	579.05	22.35	26.904		
3,900.00	3,816.74	3,862.91	3,786.87	11.57	11.15	112.08	-741.52	-185.76	615.13	592.21	22.92	26.837		
4,000.00	3,914.20	3,961.97	3,883.61	11.87	11.43	112.07	-762.80	-186.82	628.85	605.35	23.50	26.760		
4,100.00	4,011.65	4,061.02	3,980.35	12.17	11.73	112.06	-784.08	-187.88	642.56	618.48	24.09	26.675		
4,200.00	4,109.10	4,160.08	4,077.08	12.48	12.02	112.04	-805.36	-188.94	656.28	631.60	24.69	26.584		
4,300.00	4,206.56	4,259.13	4,173.82	12.79	12.33	112.03	-826.64	-190.00	670.00	644.71	25.29	26.488		
4,400.00	4,304.01	4,358.19	4,270.55	13.11	12.63	112.02	-847.91	-191.06	683.72	657.81	25.91	26.387		
4,500.00	4,401.46	4,457.24	4,367.29	13.43	12.94	112.01	-869.19	-192.12	697.44	670.90	26.54	26.284		
4,600.00	4,498.91	4,556.29	4,464.03	13.76	13.26	112.00	-890.47	-193.18	711.16	683.99	27.17	26.178		
4,700.00	4,596.37	4,655.35	4,560.76	14.09	13.57	111.99	-911.75	-194.24	724.88	697.07	27.80	26.071		
4,800.00	4,693.82	4,754.40	4,657.50	14.42	13.89	111.99	-933.02	-195.30	738.60	710.15	28.45	25.962		
4,900.00	4,791.27	4,853.46	4,754.24	14.75	14.22	111.98	-954.30	-196.35	752.31	723.22	29.10	25.854		
5,000.00	4,888.72	4,952.51	4,850.97	15.09	14.54	111.97	-975.58	-197.41	766.03	736.28	29.75	25.745		
5,100.00	4,986.18	5,051.57	4,947.71	15.43	14.87	111.96	-996.86	-198.47	779.75	749.34	30.42	25.637		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,083.63	5,150.62	5,044.44	15.78	15.20	111.95	-1,018.14	-199.53	793.47	762.39	31.08	25.529		
5,300.00	5,181.08	5,249.68	5,141.18	16.12	15.54	111.95	-1,039.41	-200.59	807.19	775.44	31.75	25.422		
5,400.00	5,278.53	5,348.73	5,237.92	16.47	15.87	111.94	-1,060.69	-201.65	820.91	788.48	32.43	25.316		
5,500.00	5,375.99	5,447.78	5,334.65	16.82	16.21	111.93	-1,081.97	-202.71	834.63	801.52	33.10	25.212		
5,600.00	5,473.44	5,546.84	5,431.39	17.17	16.55	111.92	-1,103.25	-203.77	848.35	814.56	33.79	25.109		
5,700.00	5,570.89	5,645.89	5,528.13	17.52	16.89	111.92	-1,124.53	-204.83	862.07	827.59	34.47	25.008		
5,800.00	5,668.35	5,744.95	5,624.86	17.88	17.23	111.91	-1,145.80	-205.89	875.78	840.62	35.16	24.908		
5,900.00	5,765.80	5,844.00	5,721.60	18.23	17.58	111.91	-1,167.08	-206.95	889.50	853.65	35.85	24.810		
6,000.00	5,863.25	5,943.06	5,818.33	18.59	17.92	111.90	-1,188.36	-208.01	903.22	866.67	36.55	24.714		
6,100.00	5,960.70	6,042.11	5,915.07	18.95	18.27	111.89	-1,209.64	-209.07	916.94	879.70	37.24	24.619		
6,200.00	6,058.16	6,141.17	6,011.81	19.31	18.62	111.89	-1,230.92	-210.13	930.66	892.71	37.95	24.527		
6,300.00	6,155.61	6,240.22	6,108.54	19.67	18.97	111.88	-1,252.19	-211.19	944.38	905.73	38.65	24.436		
6,400.00	6,253.06	6,339.27	6,205.28	20.03	19.32	111.88	-1,273.47	-212.25	958.10	918.75	39.35	24.346		
6,500.00	6,350.51	8,000.32	7,158.62	20.40	25.44	59.83	-1,485.99	740.85	887.36	857.97	29.39	30.193		
6,600.00	6,447.97	8,012.01	7,158.61	20.76	25.55	57.12	-1,486.03	753.18	791.31	761.41	29.90	26.469		
6,700.00	6,545.82	8,019.26	7,158.60	21.04	25.61	-1.03	-1,486.05	760.43	695.73	665.26	30.46	22.837		
6,800.00	6,643.56	8,011.14	7,158.61	21.24	25.54	-62.32	-1,486.02	752.31	601.47	570.41	31.06	19.367		
6,900.00	6,738.83	7,987.54	7,158.64	21.40	25.34	-92.68	-1,485.96	728.71	511.42	479.70	31.72	16.122		
7,000.00	6,829.27	7,949.05	7,158.68	21.50	25.02	-106.09	-1,485.86	690.22	428.63	396.08	32.55	13.169		
7,100.00	6,912.66	7,903.39	7,158.74	21.56	24.66	-111.00	-1,485.72	637.78	356.24	322.58	33.66	10.582		
7,200.00	6,986.95	7,831.52	7,158.82	21.59	24.16	-110.71	-1,485.54	572.69	297.22	262.19	35.03	8.485		
7,300.00	7,050.31	7,755.38	7,158.91	21.58	23.70	-106.76	-1,485.34	496.55	253.75	217.12	36.64	6.926		
7,400.00	7,101.17	7,668.16	7,158.91	21.54	23.28	-100.30	-1,485.08	409.33	225.92	187.80	38.12	5.927		
7,500.00	7,138.29	7,567.32	7,149.42	21.46	22.89	-90.57	-1,482.70	309.07	208.47	168.96	39.51	5.276		
7,600.00	7,160.75	7,474.08	7,127.00	21.37	22.62	-79.62	-1,477.51	218.80	200.30	160.13	40.17	4.986		
7,630.94	7,164.66	7,446.50	7,117.93	21.33	22.54	-76.10	-1,475.43	192.84	199.82	159.58	40.24	4.966 SF		
7,700.00	7,168.01	7,386.74	7,094.54	21.26	22.39	-68.33	-1,470.13	138.13	202.10	161.85	40.25	5.022		
7,800.00	7,168.19	7,307.85	7,056.19	21.16	22.20	-57.60	-1,461.49	69.79	215.50	175.25	40.25	5.354		
7,900.00	7,168.37	7,240.11	7,016.89	21.19	22.04	-47.87	-1,452.68	15.37	244.60	204.10	40.51	6.039		
8,000.00	7,168.55	7,182.55	6,979.20	21.90	21.90	-39.99	-1,444.27	-27.30	289.11	248.05	41.07	7.040		
8,100.00	7,168.73	7,133.78	6,944.44	22.80	21.78	-33.93	-1,436.52	-60.59	346.15	304.39	41.76	8.289		
8,200.00	7,168.91	7,092.40	6,913.06	23.78	21.68	-29.32	-1,429.54	-86.64	412.53	370.13	42.41	9.728		
8,300.00	7,169.09	7,050.00	6,879.26	24.84	21.57	-25.14	-1,422.04	-111.10	485.83	443.00	42.83	11.343		
8,400.00	7,169.27	7,026.85	6,860.16	25.95	21.51	-23.08	-1,417.80	-123.47	563.97	520.55	43.42	12.988		
8,500.00	7,169.45	7,000.00	6,837.47	27.12	21.44	-20.87	-1,412.77	-136.91	645.97	602.19	43.78	14.756		
8,600.00	7,169.62	6,978.01	6,818.48	28.33	21.38	-19.20	-1,408.56	-147.18	730.86	686.78	44.08	16.582		
8,700.00	7,169.80	6,950.00	6,793.82	29.59	21.30	-17.25	-1,403.10	-159.28	818.09	773.85	44.24	18.492		
8,800.00	7,169.98	6,950.00	6,793.82	30.88	21.30	-17.25	-1,403.10	-159.28	907.04	862.48	44.56	20.355		
8,900.00	7,170.16	6,925.08	6,771.46	32.21	21.23	-15.65	-1,398.15	-169.11	997.30	952.65	44.65	22.336		
9,000.00	7,170.34	6,900.00	6,748.60	33.56	21.16	-14.18	-1,393.10	-178.08	1,089.01	1,044.29	44.72	24.350		
9,100.00	7,170.52	6,900.00	6,748.60	34.94	21.16	-14.18	-1,393.10	-178.08	1,181.39	1,136.50	44.89	26.317		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 40N-27C-XR - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-105.39	-41.17	-149.61	155.18					
100.00	100.00	101.00	101.00	3.28	3.28	-105.39	-41.17	-149.61	155.18	147.65	7.53	20.610		
200.00	200.00	201.00	201.00	3.31	3.31	-105.39	-41.17	-149.61	155.18	147.60	7.57	20.487	CC, ES	
300.00	299.98	299.34	299.32	3.35	3.34	108.14	-42.89	-149.69	156.26	148.60	7.65	20.419		
400.00	399.84	397.63	397.47	3.41	3.40	108.09	-47.98	-149.91	159.47	151.71	7.77	20.534		
500.00	499.45	495.79	495.26	3.49	3.49	108.03	-56.41	-150.27	164.82	156.89	7.93	20.780		
600.00	598.70	593.75	592.51	3.61	3.59	107.94	-68.16	-150.77	172.29	164.14	8.16	21.120		
700.00	697.47	691.45	689.05	3.76	3.74	107.83	-83.18	-151.41	181.87	173.42	8.45	21.514		
800.00	795.62	788.84	784.70	3.96	3.92	107.70	-101.42	-152.19	193.54	184.71	8.83	21.922		
900.00	893.16	885.86	879.33	4.20	4.15	107.57	-122.80	-153.11	207.14	197.85	9.29	22.298		
1,000.00	990.62	983.48	973.83	4.49	4.43	106.90	-147.26	-154.15	221.79	211.97	9.83	22.573		
1,100.00	1,088.07	1,082.33	1,069.37	4.80	4.74	106.18	-172.57	-155.24	236.66	226.23	10.43	22.695		
1,200.00	1,185.52	1,181.18	1,164.92	5.13	5.08	105.55	-197.88	-156.32	251.56	240.48	11.08	22.709		
1,300.00	1,282.97	1,280.02	1,260.46	5.48	5.44	104.99	-223.19	-157.40	266.48	254.72	11.77	22.649		
1,400.00	1,380.43	1,378.87	1,356.01	5.85	5.82	104.48	-248.50	-158.49	281.43	268.95	12.48	22.542		
1,500.00	1,477.88	1,477.72	1,451.56	6.23	6.21	104.03	-273.81	-159.57	296.40	283.17	13.23	22.403		
1,600.00	1,575.33	1,576.57	1,547.10	6.62	6.62	103.62	-299.12	-160.65	311.38	297.38	14.00	22.247		
1,700.00	1,672.79	1,675.41	1,642.65	7.02	7.03	103.25	-324.43	-161.74	326.38	311.60	14.78	22.081		
1,800.00	1,770.24	1,774.26	1,738.20	7.42	7.45	102.91	-349.74	-162.82	341.39	325.81	15.58	21.912		
1,900.00	1,867.69	1,873.11	1,833.74	7.65	7.74	102.60	-375.05	-163.90	356.41	340.71	15.69	22.711		
2,000.00	1,965.14	1,971.96	1,929.29	7.70	7.85	102.32	-400.36	-164.99	371.44	355.59	15.85	23.438		
2,100.00	2,062.60	2,070.81	2,024.84	7.78	7.93	102.05	-425.67	-166.07	386.48	370.48	15.99	24.168		
2,200.00	2,160.05	2,169.65	2,120.38	7.87	8.03	101.81	-450.98	-167.15	401.52	385.35	16.17	24.826		
2,300.00	2,257.50	2,268.50	2,215.93	7.98	8.15	101.58	-476.29	-168.23	416.57	400.18	16.39	25.412		
2,400.00	2,354.95	2,367.35	2,311.47	8.11	8.29	101.37	-501.61	-169.32	431.63	414.98	16.65	25.926		
2,500.00	2,452.41	2,466.20	2,407.02	8.25	8.45	101.18	-526.92	-170.40	446.69	429.76	16.94	26.372		
2,600.00	2,549.86	2,565.05	2,502.57	8.41	8.62	100.99	-552.23	-171.48	461.76	444.50	17.26	26.752		
2,700.00	2,647.31	2,663.89	2,598.11	8.59	8.81	100.82	-577.54	-172.57	476.83	459.22	17.61	27.072		
2,800.00	2,744.76	2,762.74	2,693.66	8.78	9.01	100.66	-602.85	-173.65	491.91	473.92	17.99	27.336		
2,900.00	2,842.22	2,861.59	2,789.21	8.98	9.23	100.51	-628.16	-174.73	506.99	488.59	18.40	27.549		
3,000.00	2,939.67	2,960.44	2,884.75	9.20	9.46	100.37	-653.47	-175.82	522.07	503.24	18.84	27.716		
3,100.00	3,037.12	3,059.28	2,980.30	9.43	9.71	100.23	-678.78	-176.90	537.16	517.87	19.29	27.842		
3,200.00	3,134.58	3,158.13	3,075.85	9.66	9.96	100.11	-704.09	-177.98	552.25	532.48	19.77	27.931		
3,300.00	3,232.03	3,256.98	3,171.39	9.91	10.23	99.98	-729.40	-179.07	567.34	547.07	20.27	27.989		
3,400.00	3,329.48	3,355.83	3,266.94	10.17	10.50	99.87	-754.71	-180.15	582.43	561.65	20.79	28.019		
3,500.00	3,426.93	3,454.68	3,362.48	10.43	10.78	99.76	-780.02	-181.23	597.53	576.21	21.32	28.025		
3,600.00	3,524.39	3,553.52	3,458.03	10.71	11.08	99.66	-805.33	-182.31	612.63	590.76	21.87	28.011		
3,700.00	3,621.84	3,652.37	3,553.58	10.99	11.37	99.56	-830.64	-183.40	627.73	605.29	22.44	27.979		
3,800.00	3,719.29	3,751.22	3,649.12	11.27	11.68	99.47	-855.95	-184.48	642.83	619.81	23.01	27.932		
3,900.00	3,816.74	3,850.07	3,744.67	11.57	11.99	99.38	-881.26	-185.56	657.93	634.33	23.60	27.873		
4,000.00	3,914.20	3,948.91	3,840.22	11.87	12.31	99.29	-906.57	-186.65	673.04	648.83	24.21	27.804		
4,100.00	4,011.65	4,047.76	3,935.76	12.17	12.64	99.21	-931.88	-187.73	688.14	663.32	24.82	27.726		
4,200.00	4,109.10	4,146.61	4,031.31	12.48	12.96	99.13	-957.19	-188.81	703.25	677.81	25.44	27.641		
4,300.00	4,206.56	4,245.46	4,126.85	12.79	13.30	99.06	-982.50	-189.90	718.36	692.28	26.07	27.550		
4,400.00	4,304.01	4,344.31	4,222.40	13.11	13.64	98.99	-1,007.81	-190.98	733.47	706.75	26.71	27.455		
4,500.00	4,401.46	4,443.15	4,317.95	13.43	13.98	98.92	-1,033.13	-192.06	748.58	721.21	27.36	27.357		
4,600.00	4,498.91	4,542.00	4,413.49	13.76	14.32	98.85	-1,058.44	-193.15	763.69	735.67	28.02	27.256		
4,700.00	4,596.37	4,640.85	4,509.04	14.09	14.67	98.79	-1,083.75	-194.23	778.80	750.12	28.68	27.153		
4,800.00	4,693.82	4,739.70	4,604.59	14.42	15.03	98.73	-1,109.06	-195.31	793.91	764.56	29.35	27.049		
4,900.00	4,791.27	4,838.55	4,700.13	14.75	15.38	98.67	-1,134.37	-196.40	809.03	779.00	30.03	26.944		
5,000.00	4,888.72	4,937.39	4,795.68	15.09	15.74	98.61	-1,159.68	-197.48	824.14	793.44	30.71	26.839		
5,100.00	4,986.18	5,036.24	4,891.23	15.43	16.10	98.56	-1,184.99	-198.56	839.26	807.87	31.39	26.735		



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													5N-66W-29 SANFORD 21-29 PAD - SANFORD 40N-27C-XR - Wellbore #1 - Design #1		Offset Site Error:		0.00 usft
Survey Program:													0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA		Offset Well Error:		3.28 usft
Reference		Offset		Semi Major Axis		Distance								Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
5,200.00	5,083.63	5,135.09	4,986.77	15.78	16.46	98.50	-1,210.30	-199.64	854.38	822.29	32.08	26.630					
5,300.00	5,181.08	5,233.94	5,082.32	16.12	16.83	98.45	-1,235.61	-200.73	869.49	836.72	32.78	26.527					
5,400.00	5,278.53	5,332.78	5,177.86	16.47	17.20	98.40	-1,260.92	-201.81	884.61	851.13	33.48	26.424					
5,500.00	5,375.99	5,431.63	5,273.41	16.82	17.57	98.36	-1,286.23	-202.89	899.73	865.55	34.18	26.323					
5,600.00	5,473.44	5,530.48	5,368.96	17.17	17.94	98.31	-1,311.54	-203.98	914.85	879.96	34.89	26.223					
5,700.00	5,570.89	5,629.33	5,464.50	17.52	18.31	98.27	-1,336.85	-205.06	929.97	894.37	35.60	26.124					
5,800.00	5,668.35	5,728.18	5,560.05	17.88	18.69	98.22	-1,362.16	-206.14	945.09	908.78	36.31	26.027					
5,900.00	5,765.80	5,827.02	5,655.60	18.23	19.06	98.18	-1,387.47	-207.23	960.21	923.18	37.03	25.932					
6,000.00	5,863.25	5,925.87	5,751.14	18.59	19.44	98.14	-1,412.78	-208.31	975.33	937.58	37.75	25.838					
6,100.00	5,960.70	6,024.72	5,846.69	18.95	19.82	98.10	-1,438.09	-209.39	990.45	951.98	38.47	25.745					
6,200.00	6,058.16	6,123.57	5,942.24	19.31	20.20	98.06	-1,463.40	-210.48	1,005.58	966.38	39.20	25.655					
6,300.00	6,155.61	6,222.42	6,037.78	19.67	20.58	98.03	-1,488.71	-211.56	1,020.70	980.77	39.92	25.566					
6,400.00	6,253.06	6,321.26	6,133.33	20.03	20.97	97.99	-1,514.02	-212.64	1,035.82	995.17	40.65	25.479					
6,500.00	6,350.51	6,420.11	6,228.87	20.40	21.35	97.96	-1,539.34	-213.73	1,050.94	1,009.56	41.39	25.393					
6,600.00	6,447.97	6,515.93	6,229.51	20.76	21.64	97.92	-1,564.65	-214.81	1,066.06	1,024.97	42.12	25.307					
6,700.00	6,545.82	6,614.78	6,229.52	21.04	21.70	97.88	-1,589.96	-215.89	1,081.17	1,040.38	42.85	25.221					
6,800.00	6,643.56	6,713.52	6,229.51	21.24	21.64	-51.15	-1,805.25	750.83	860.79	826.24	34.55	24.913					
6,900.00	6,738.83	6,808.79	6,229.47	21.40	21.46	-77.66	-1,805.22	727.47	784.37	748.80	35.57	22.053					
7,000.00	6,829.27	6,899.23	6,229.41	21.50	21.19	-90.86	-1,805.17	689.20	716.28	679.72	36.56	19.591					
7,100.00	6,912.66	6,982.62	6,229.33	21.56	21.65	-97.35	-1,805.11	636.96	658.52	621.03	37.49	17.564					
7,200.00	6,986.95	7,057.91	6,229.23	21.59	21.67	-99.98	-1,805.02	572.05	612.23	573.94	38.29	15.991					
7,300.00	7,050.31	7,121.27	6,229.12	21.58	21.13	-100.29	-1,804.93	496.06	577.45	538.51	38.95	14.827					
7,400.00	7,101.17	7,172.13	6,228.89	21.54	21.53	-99.11	-1,804.79	406.33	553.11	513.76	39.35	14.058					
7,500.00	7,138.29	7,168.02	6,211.97	21.46	21.29	-94.73	-1,800.19	269.71	532.78	492.66	40.12	13.278					
7,600.00	7,160.75	7,149.07	6,174.85	21.37	21.99	-90.01	-1,790.26	157.32	514.27	473.50	40.76	12.616					
7,700.00	7,168.01	7,144.21	6,125.86	21.26	21.73	-84.99	-1,777.20	65.66	499.44	458.21	41.23	12.115					
7,800.00	7,168.19	7,155.36	6,073.44	21.16	21.50	-78.68	-1,763.25	-4.61	489.32	447.64	41.69	11.738					
7,869.85	7,168.32	7,104.05	6,039.02	21.13	21.37	-74.48	-1,754.10	-41.54	486.85	444.73	42.12	11.559					
7,900.00	7,168.37	7,084.26	6,025.00	21.19	21.32	-72.76	-1,750.38	-54.98	487.36	445.03	42.33	11.514					
8,000.00	7,168.55	7,027.40	6,982.53	21.90	21.16	-67.60	-1,739.09	-91.05	497.09	453.86	43.23	11.499 SF					
8,100.00	7,168.73	7,181.56	6,946.14	22.80	21.03	-63.27	-1,729.43	-117.18	520.15	475.81	44.34	11.731					
8,200.00	7,168.91	7,144.18	6,915.18	23.78	21.93	-59.69	-1,721.21	-136.43	556.37	510.87	45.51	12.227					
8,300.00	7,169.09	7,113.33	6,888.84	24.84	21.83	-56.73	-1,714.22	-150.89	604.34	557.77	46.57	12.976					
8,400.00	7,169.27	7,087.53	6,866.32	25.95	21.76	-54.28	-1,708.25	-161.95	662.12	614.66	47.47	13.949					
8,500.00	7,169.45	7,065.72	6,846.95	27.12	21.69	-52.24	-1,703.11	-170.56	727.77	679.60	48.17	15.108					
8,600.00	7,169.62	7,050.00	6,832.82	28.33	21.64	-50.78	-1,699.36	-176.34	799.62	750.89	48.73	16.409					
8,700.00	7,169.80	7,030.97	6,815.53	29.59	21.59	-49.05	-1,694.77	-182.85	876.30	827.19	49.11	17.845					
8,800.00	7,169.98	7,016.94	6,802.67	30.88	21.54	-47.79	-1,691.36	-187.30	956.79	907.39	49.40	19.367					
8,900.00	7,170.16	7,000.00	6,787.02	32.21	21.49	-46.30	-1,687.21	-192.29	1,040.31	990.72	49.60	20.976					
9,000.00	7,170.34	7,000.00	6,787.02	33.56	21.49	-46.30	-1,687.21	-192.29	1,126.23	1,076.41	49.82	22.606					

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 41N-27B-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-62.28	79.05	-150.45	169.95					
100.00	100.00	101.00	101.00	3.28	3.28	-62.28	79.05	-150.45	169.95	162.43	7.53	22.573		
200.00	200.00	201.02	201.02	3.31	3.31	-62.28	79.05	-150.45	169.95	162.38	7.57	22.439		
200.69	200.69	201.73	201.73	3.31	3.31	151.27	79.05	-150.45	169.95	162.38	7.57	22.437 CC, ES		
300.00	299.98	303.14	303.12	3.35	3.35	150.97	77.21	-150.68	170.85	163.19	7.65	22.321 SF		
400.00	399.84	404.97	404.80	3.41	3.41	150.10	71.79	-151.35	173.58	165.81	7.77	22.339		
500.00	499.45	504.81	504.40	3.49	3.49	149.38	65.02	-152.20	178.87	170.93	7.94	22.537		
600.00	598.70	604.46	603.82	3.61	3.59	149.21	58.26	-153.04	187.17	179.02	8.15	22.959		
700.00	697.47	703.80	702.93	3.76	3.72	149.54	51.52	-153.88	198.46	190.05	8.42	23.579		
800.00	795.62	802.72	801.61	3.96	3.86	150.27	44.81	-154.71	212.77	204.04	8.73	24.377		
900.00	893.16	901.17	899.84	4.20	4.02	151.33	38.13	-155.55	229.73	220.65	9.08	25.292		
1,000.00	990.62	1,000.44	998.00	4.49	4.20	152.35	31.46	-156.38	247.12	237.65	9.47	26.108		
1,100.00	1,088.07	1,102.05	1,096.15	4.80	4.39	153.23	24.78	-157.21	264.57	254.69	9.88	26.772		
1,200.00	1,185.52	1,203.66	1,194.31	5.13	4.60	154.01	18.11	-158.04	282.08	271.75	10.33	27.317		
1,300.00	1,282.97	1,305.27	1,292.47	5.48	4.81	154.69	11.43	-158.87	299.63	288.84	10.79	27.763		
1,400.00	1,380.43	1,406.89	1,390.63	5.85	5.04	155.30	4.76	-159.70	317.22	305.94	11.28	28.127		
1,500.00	1,477.88	1,508.50	1,488.79	6.23	5.27	155.85	-1.92	-160.54	334.84	323.06	11.78	28.423		
1,600.00	1,575.33	1,589.89	1,586.94	6.62	5.46	156.34	-8.59	-161.37	352.49	340.24	12.25	28.775		
1,700.00	1,672.79	1,688.28	1,685.10	7.02	5.70	156.78	-15.27	-162.20	370.16	357.38	12.77	28.985		
1,800.00	1,770.24	1,786.67	1,783.26	7.42	5.94	157.19	-21.94	-163.03	387.84	374.54	13.30	29.157		
1,900.00	1,867.69	1,885.05	1,881.42	7.85	6.09	157.56	-28.61	-163.86	405.55	392.33	13.82	30.670		
2,000.00	1,965.14	1,983.44	1,979.57	7.70	6.12	157.89	-35.29	-164.69	423.27	410.00	13.28	31.884		
2,100.00	2,062.60	2,081.83	2,077.73	7.78	6.15	158.21	-41.96	-165.52	441.01	427.67	13.34	33.058		
2,200.00	2,160.05	2,180.22	2,175.89	7.87	6.19	158.49	-48.64	-166.36	458.75	445.32	13.44	34.143		
2,300.00	2,257.50	2,278.61	2,274.05	7.98	6.25	158.76	-55.31	-167.19	476.51	462.95	13.56	35.136		
2,400.00	2,354.95	2,376.99	2,372.21	8.11	6.32	159.00	-61.99	-168.02	494.27	480.56	13.72	36.034		
2,500.00	2,452.41	2,475.38	2,470.36	8.25	6.40	159.23	-68.66	-168.85	512.05	498.15	13.90	36.839		
2,600.00	2,549.86	2,573.77	2,568.52	8.41	6.49	159.45	-75.34	-169.68	529.83	515.72	14.11	37.552		
2,700.00	2,647.31	2,672.16	2,666.68	8.59	6.59	159.65	-82.01	-170.51	547.61	533.27	14.34	38.177		
2,800.00	2,744.76	2,770.54	2,764.84	8.78	6.71	159.83	-88.69	-171.34	565.41	550.80	14.60	38.718		
2,900.00	2,842.22	2,868.93	2,862.99	8.98	6.83	160.01	-95.36	-172.17	583.21	568.32	14.89	39.180		
3,000.00	2,939.67	2,967.32	2,961.15	9.20	6.96	160.17	-102.03	-173.01	601.01	585.82	15.19	39.570		
3,100.00	3,037.12	3,065.71	3,059.31	9.43	7.11	160.33	-108.71	-173.84	618.82	603.31	15.51	39.892		
3,200.00	3,134.58	3,164.10	3,157.47	9.66	7.26	160.48	-115.38	-174.67	636.63	620.78	15.85	40.154		
3,300.00	3,232.03	3,262.48	3,255.63	9.91	7.42	160.62	-122.06	-175.50	654.45	638.23	16.21	40.361		
3,400.00	3,329.48	3,360.87	3,353.78	10.17	7.58	160.75	-128.73	-176.33	672.27	655.68	16.59	40.520		
3,500.00	3,426.93	3,459.26	3,451.94	10.43	7.76	160.87	-135.41	-177.16	690.09	673.11	16.98	40.635		
3,600.00	3,524.39	3,557.65	3,550.10	10.71	7.94	160.99	-142.08	-177.99	707.92	690.53	17.39	40.712		
3,700.00	3,621.84	3,656.04	3,648.26	10.99	8.12	161.11	-148.76	-178.83	725.75	707.94	17.81	40.755		
3,800.00	3,719.29	3,754.42	3,746.41	11.27	8.32	161.21	-155.43	-179.66	743.58	725.34	18.24	40.769		
3,900.00	3,816.74	3,852.81	3,844.57	11.57	8.51	161.32	-162.11	-180.49	761.41	742.73	18.68	40.758		
4,000.00	3,914.20	3,951.20	3,942.73	11.87	8.72	161.41	-168.78	-181.32	779.25	760.12	19.13	40.725		
4,100.00	4,011.65	4,049.59	4,040.89	12.17	8.92	161.51	-175.46	-182.15	797.09	777.49	19.60	40.674		
4,200.00	4,109.10	4,147.98	4,139.05	12.48	9.14	161.60	-182.13	-182.98	814.93	794.86	20.07	40.606		
4,300.00	4,206.56	4,246.36	4,237.20	12.79	9.35	161.68	-188.80	-183.81	832.77	812.22	20.55	40.525		
4,400.00	4,304.01	4,344.75	4,335.36	13.11	9.57	161.76	-195.48	-184.65	850.62	829.58	21.04	40.433		
4,500.00	4,401.46	4,443.14	4,433.52	13.43	9.79	161.84	-202.15	-185.48	868.46	846.93	21.53	40.331		
4,600.00	4,498.91	4,541.53	4,531.68	13.76	10.02	161.92	-208.83	-186.31	886.31	864.27	22.04	40.222		
4,700.00	4,596.37	4,639.92	4,629.83	14.09	10.25	161.99	-215.50	-187.14	904.16	881.61	22.54	40.106		
4,800.00	4,693.82	4,738.30	4,727.99	14.42	10.48	162.06	-222.18	-187.97	922.01	898.95	23.06	39.985		
4,900.00	4,791.27	4,836.69	4,826.15	14.75	10.72	162.13	-228.85	-188.80	939.86	916.28	23.58	39.861		
5,000.00	4,888.72	4,935.08	4,924.31	15.09	10.95	162.19	-235.53	-189.63	957.71	933.61	24.10	39.733		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 41N-27B-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,986.18	5,033.47	5,022.46	15.43	11.19	162.25	-242.20	-190.47	975.57	950.93	24.63	39.603	
5,200.00	5,083.63	5,131.86	5,120.62	15.78	11.43	162.31	-248.88	-191.30	993.42	968.25	25.17	39.471	
5,300.00	5,181.08	5,230.24	5,218.78	16.12	11.68	162.37	-255.55	-192.13	1,011.28	985.57	25.71	39.338	
5,400.00	5,278.53	5,328.63	5,316.94	16.47	11.92	162.43	-262.22	-192.96	1,029.13	1,002.88	26.25	39.205	
5,500.00	5,375.99	5,427.02	5,415.10	16.82	12.17	162.48	-268.90	-193.79	1,046.99	1,020.20	26.80	39.072	
5,600.00	5,473.44	5,525.41	5,513.25	17.17	12.42	162.53	-275.57	-194.62	1,064.85	1,037.50	27.35	38.940	
5,700.00	5,570.89	5,623.79	5,611.41	17.52	12.67	162.58	-282.25	-195.45	1,082.71	1,054.81	27.90	38.808	
5,800.00	5,668.35	5,722.18	5,709.57	17.88	12.92	162.63	-288.92	-196.29	1,100.57	1,072.11	28.46	38.677	
5,900.00	5,765.80	5,820.57	5,807.73	18.23	13.18	162.68	-295.60	-197.12	1,118.43	1,089.42	29.01	38.547	
6,000.00	5,863.25	5,918.96	5,905.88	18.59	13.43	162.72	-302.27	-197.95	1,136.29	1,106.71	29.58	38.418	
6,100.00	5,960.70	6,017.35	6,004.04	18.95	13.69	162.77	-308.95	-198.78	1,154.15	1,124.01	30.14	38.291	
6,200.00	6,058.16	6,115.73	6,102.20	19.31	13.95	162.81	-315.62	-199.61	1,172.02	1,141.31	30.71	38.166	
6,300.00	6,155.61	6,214.12	6,200.36	19.67	14.20	162.85	-322.30	-200.44	1,189.88	1,158.60	31.28	38.042	
6,400.00	6,253.06	7,839.40	7,169.09	20.03	21.23	-153.56	-383.45	724.59	1,161.30	1,127.20	34.11	34.050	
6,500.00	6,350.51	7,851.73	7,169.09	20.40	21.37	-152.76	-383.39	736.92	1,098.62	1,063.37	35.24	31.173	
6,600.00	6,447.97	7,864.06	7,169.10	20.76	21.51	-151.97	-383.33	749.26	1,041.63	1,005.17	36.45	28.574	
6,700.00	6,545.82	7,871.32	7,169.10	21.04	21.59	179.14	-383.29	756.51	991.16	953.53	37.63	26.340	
6,800.00	6,643.56	7,863.19	7,169.10	21.24	21.50	144.42	-383.33	748.39	948.63	910.04	38.59	24.583	
6,900.00	6,738.83	7,839.59	7,169.09	21.40	21.23	127.50	-383.45	724.79	915.84	876.60	39.24	23.338	
7,000.00	6,829.27	7,801.10	7,169.08	21.50	20.81	118.47	-383.64	686.29	893.51	853.99	39.52	22.611	
7,100.00	6,912.66	7,748.66	7,169.06	21.56	20.27	111.92	-383.91	633.86	881.11	841.69	39.42	22.350	
7,200.00	6,986.95	7,683.56	7,169.04	21.59	19.61	106.20	-384.24	568.76	877.02	838.03	38.99	22.491	
7,212.05	6,995.20	7,674.94	7,169.04	21.59	19.53	105.55	-384.28	560.14	876.98	838.05	38.93	22.526	
7,300.00	7,050.31	7,607.42	7,169.02	21.58	18.90	101.00	-384.62	492.62	878.84	840.48	38.36	22.909	
7,400.00	7,101.17	7,521.82	7,168.44	21.54	18.18	96.46	-385.01	407.03	883.90	846.23	37.68	23.461	
7,500.00	7,138.29	7,436.31	7,159.18	21.46	17.54	92.53	-384.81	322.08	890.14	853.03	37.11	23.986	
7,600.00	7,160.75	7,355.33	7,140.01	21.37	17.03	89.18	-383.91	243.46	896.88	860.14	36.74	24.411	
7,700.00	7,168.01	7,277.91	7,112.53	21.26	16.69	86.41	-382.40	171.16	903.57	867.00	36.56	24.712	
7,800.00	7,168.19	7,206.40	7,079.54	21.16	16.48	84.34	-380.48	107.79	912.10	875.55	36.55	24.952	
7,900.00	7,168.37	7,143.35	7,044.72	21.19	16.34	82.18	-378.38	55.29	925.13	888.45	36.69	25.217	
8,000.00	7,168.55	7,088.36	7,010.26	21.90	16.23	80.07	-376.26	12.51	943.57	906.65	36.92	25.558	
8,100.00	7,168.73	7,040.65	6,977.47	22.80	16.14	78.11	-374.20	-22.07	968.03	930.81	37.22	26.010	
8,200.00	7,168.91	7,000.00	6,947.56	23.78	16.06	76.34	-372.31	-49.52	998.82	961.26	37.56	26.592	
8,300.00	7,169.09	6,963.43	6,919.21	24.84	15.99	74.71	-370.50	-72.54	1,035.95	998.03	37.91	27.325	
8,400.00	7,169.27	6,932.18	6,893.98	25.95	15.92	73.28	-368.88	-90.89	1,079.20	1,040.94	38.26	28.208	
8,500.00	7,169.45	6,900.00	6,867.08	27.12	15.86	71.78	-367.14	-108.47	1,128.22	1,089.66	38.56	29.256	
8,600.00	7,169.62	6,880.82	6,850.64	28.33	15.81	70.88	-366.07	-118.29	1,182.49	1,143.60	38.89	30.405	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 41N-27C-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-68.55	59.01	-150.17	161.35					
100.00	100.00	101.00	101.00	3.28	3.28	-68.55	59.01	-150.17	161.35	153.82	7.53	21.431		
200.00	200.00	201.02	201.02	3.31	3.31	-68.55	59.01	-150.17	161.35	153.78	7.57	21.303		
200.50	200.50	201.53	201.53	3.31	3.31	145.00	59.01	-150.17	161.35	153.78	7.57	21.302 CC, ES		
300.00	299.98	302.55	302.53	3.35	3.35	144.73	57.19	-150.35	162.29	154.64	7.65	21.204		
400.00	399.84	403.99	403.82	3.41	3.41	143.94	51.79	-150.90	165.16	157.39	7.77	21.256		
500.00	499.45	504.53	504.00	3.49	3.49	142.87	43.39	-151.74	170.10	162.17	7.94	21.429		
600.00	598.70	604.22	603.30	3.61	3.60	142.39	34.66	-152.62	177.76	169.60	8.16	21.787		
700.00	697.47	703.67	702.36	3.76	3.73	142.57	25.95	-153.50	188.18	179.75	8.43	22.317		
800.00	795.62	802.74	801.06	3.96	3.88	143.28	17.27	-154.37	201.38	192.62	8.76	22.999		
900.00	893.16	901.41	899.34	4.20	4.05	144.43	8.63	-155.24	217.04	207.91	9.13	23.781		
1,000.00	990.62	1,000.01	997.56	4.49	4.23	145.56	0.00	-156.11	233.12	223.59	9.53	24.469		
1,100.00	1,088.07	1,101.39	1,095.77	4.80	4.44	146.55	-8.64	-156.98	249.27	239.31	9.96	25.015		
1,200.00	1,185.52	1,202.79	1,193.99	5.13	4.65	147.41	-17.28	-157.85	265.49	255.06	10.43	25.454		
1,300.00	1,282.97	1,304.19	1,292.21	5.48	4.88	148.17	-25.91	-158.72	281.76	270.84	10.92	25.805		
1,400.00	1,380.43	1,405.58	1,390.43	5.85	5.12	148.85	-34.55	-159.59	298.07	286.64	11.43	26.084		
1,500.00	1,477.88	1,506.98	1,488.65	6.23	5.36	149.46	-43.18	-160.46	314.42	302.46	11.95	26.305		
1,600.00	1,575.33	1,608.38	1,586.87	6.62	5.62	150.01	-51.82	-161.33	330.80	318.30	12.49	26.479		
1,700.00	1,672.79	1,709.78	1,685.09	7.02	5.87	150.51	-60.45	-162.20	347.20	334.16	13.05	26.615		
1,800.00	1,770.24	1,788.82	1,783.31	7.42	6.08	150.96	-69.09	-163.07	363.63	350.08	13.55	26.835		
1,900.00	1,867.69	1,887.43	1,881.53	7.65	6.23	151.38	-77.73	-163.94	380.08	366.60	13.48	28.191		
2,000.00	1,965.14	1,986.03	1,979.75	7.70	6.26	151.76	-86.36	-164.81	396.55	383.01	13.54	29.294		
2,100.00	2,062.60	2,084.63	2,077.97	7.78	6.30	152.11	-95.00	-165.68	413.03	399.43	13.61	30.354		
2,200.00	2,160.05	2,183.23	2,176.19	7.87	6.34	152.43	-103.63	-166.55	429.53	415.82	13.71	31.333		
2,300.00	2,257.50	2,281.83	2,274.41	7.98	6.41	152.73	-112.27	-167.42	446.04	432.20	13.84	32.226		
2,400.00	2,354.95	2,380.44	2,372.63	8.11	6.48	153.01	-120.90	-168.29	462.56	448.56	14.00	33.032		
2,500.00	2,452.41	2,479.04	2,470.85	8.25	6.56	153.26	-129.54	-169.16	479.09	464.90	14.19	33.753		
2,600.00	2,549.86	2,577.64	2,569.06	8.41	6.66	153.50	-138.18	-170.03	495.63	481.22	14.41	34.391		
2,700.00	2,647.31	2,676.24	2,667.28	8.59	6.77	153.73	-146.81	-170.90	512.18	497.52	14.66	34.948		
2,800.00	2,744.76	2,774.84	2,765.50	8.78	6.89	153.94	-155.45	-171.77	528.73	513.81	14.92	35.429		
2,900.00	2,842.22	2,873.45	2,863.72	8.98	7.02	154.14	-164.08	-172.64	545.29	530.08	15.22	35.839		
3,000.00	2,939.67	2,972.05	2,961.94	9.20	7.16	154.33	-172.72	-173.51	561.86	546.33	15.53	36.183		
3,100.00	3,037.12	3,070.65	3,060.16	9.43	7.31	154.50	-181.36	-174.38	578.43	562.57	15.86	36.466		
3,200.00	3,134.58	3,169.25	3,158.38	9.66	7.47	154.67	-189.99	-175.25	595.01	578.80	16.21	36.695		
3,300.00	3,232.03	3,267.85	3,256.60	9.91	7.64	154.83	-198.63	-176.12	611.59	595.01	16.59	36.875		
3,400.00	3,329.48	3,366.46	3,354.82	10.17	7.81	154.98	-207.26	-176.99	628.18	611.21	16.97	37.012		
3,500.00	3,426.93	3,465.06	3,453.04	10.43	8.00	155.12	-215.90	-177.85	644.77	627.40	17.38	37.109		
3,600.00	3,524.39	3,563.66	3,551.26	10.71	8.18	155.25	-224.53	-178.72	661.36	643.57	17.79	37.172		
3,700.00	3,621.84	3,662.26	3,649.48	10.99	8.38	155.38	-233.17	-179.59	677.96	659.74	18.22	37.206		
3,800.00	3,719.29	3,760.87	3,747.70	11.27	8.58	155.50	-241.81	-180.46	694.56	675.90	18.66	37.213		
3,900.00	3,816.74	3,859.47	3,845.92	11.57	8.79	155.62	-250.44	-181.33	711.17	692.05	19.12	37.198		
4,000.00	3,914.20	3,958.07	3,944.13	11.87	9.00	155.73	-259.08	-182.20	727.77	708.19	19.58	37.164		
4,100.00	4,011.65	4,056.67	4,042.35	12.17	9.21	155.83	-267.71	-183.07	744.38	724.32	20.06	37.113		
4,200.00	4,109.10	4,155.27	4,140.57	12.48	9.43	155.93	-276.35	-183.94	760.99	740.45	20.54	37.048		
4,300.00	4,206.56	4,253.88	4,238.79	12.79	9.66	156.03	-284.98	-184.81	777.60	756.57	21.03	36.972		
4,400.00	4,304.01	4,352.48	4,337.01	13.11	9.88	156.12	-293.62	-185.68	794.22	772.69	21.53	36.885		
4,500.00	4,401.46	4,451.08	4,435.23	13.43	10.11	156.21	-302.26	-186.55	810.84	788.80	22.04	36.790		
4,600.00	4,498.91	4,549.68	4,533.45	13.76	10.35	156.30	-310.89	-187.42	827.45	804.90	22.55	36.688		
4,700.00	4,596.37	4,648.28	4,631.67	14.09	10.59	156.38	-319.53	-188.29	844.07	821.00	23.07	36.581		
4,800.00	4,693.82	4,746.89	4,729.89	14.42	10.83	156.46	-328.16	-189.16	860.70	837.10	23.60	36.469		
4,900.00	4,791.27	4,845.49	4,828.11	14.75	11.07	156.53	-336.80	-190.03	877.32	853.19	24.13	36.354		
5,000.00	4,888.72	4,944.09	4,926.33	15.09	11.32	156.61	-345.44	-190.90	893.95	869.28	24.67	36.237		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 41N-27C-XR - Wellbore #1 - Design #1										Offset Site Error:		0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA										Offset Well Error:		3.28 usft	
Reference		Offset		Semi Major Axis			Distance						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
5,100.00	4,986.18	5,042.69	5,024.55	15.43	11.56	156.68	-354.07	-191.77	910.57	885.36	25.21	36.117	
5,200.00	5,083.63	5,141.29	5,122.77	15.78	11.81	156.74	-362.71	-192.64	927.20	901.44	25.76	35.997	
5,300.00	5,181.08	5,239.90	5,220.99	16.12	12.07	156.81	-371.34	-193.51	943.83	917.52	26.31	35.875	
5,400.00	5,278.53	5,338.50	5,319.21	16.47	12.32	156.87	-379.98	-194.38	960.46	933.60	26.86	35.753	
5,500.00	5,375.99	5,437.10	5,417.42	16.82	12.58	156.93	-388.61	-195.25	977.09	949.67	27.42	35.632	
5,600.00	5,473.44	5,535.70	5,515.64	17.17	12.83	156.99	-397.25	-196.12	993.72	965.74	27.98	35.511	
5,700.00	5,570.89	5,634.30	5,613.86	17.52	13.09	157.05	-405.89	-196.99	1,010.36	981.81	28.55	35.390	
5,800.00	5,668.35	5,732.91	5,712.08	17.88	13.35	157.10	-414.52	-197.86	1,026.99	997.87	29.12	35.271	
5,900.00	5,765.80	5,831.51	5,810.30	18.23	13.62	157.16	-423.16	-198.73	1,043.63	1,013.94	29.69	35.152	
6,000.00	5,863.25	5,930.11	5,908.52	18.59	13.88	157.21	-431.79	-199.60	1,060.26	1,030.00	30.26	35.035	
6,100.00	5,960.70	6,028.71	6,006.74	18.95	14.15	157.26	-440.43	-200.47	1,076.90	1,046.06	30.84	34.920	
6,200.00	6,058.16	6,127.31	6,104.96	19.31	14.41	157.31	-449.06	-201.33	1,093.54	1,062.12	31.42	34.806	
6,300.00	6,155.61	6,225.92	6,203.18	19.67	14.68	157.36	-457.70	-202.20	1,110.17	1,078.17	32.00	34.693	
6,400.00	6,253.06	7,929.12	7,234.54	20.03	21.84	-155.17	-562.70	734.97	1,117.36	1,084.50	32.86	34.008	
6,500.00	6,350.51	7,941.97	7,234.56	20.40	21.98	-154.16	-562.90	747.81	1,042.64	1,008.71	33.93	30.730	
6,600.00	6,447.97	7,954.82	7,234.58	20.76	22.13	-153.15	-563.09	760.66	972.30	937.17	35.13	27.679	
6,700.00	6,545.82	7,962.59	7,234.59	21.04	22.21	-179.93	-563.21	768.44	907.20	870.81	36.39	24.932	
6,800.00	6,643.56	7,954.99	7,234.58	21.24	22.13	147.45	-563.10	760.84	849.16	811.61	37.56	22.610	
6,900.00	6,738.83	7,931.91	7,234.54	21.40	21.87	132.06	-562.74	737.76	800.84	762.31	38.54	20.781	
7,000.00	6,829.27	7,906.08	7,234.47	21.50	21.59	124.05	-562.16	699.77	764.00	724.67	39.33	19.426	
7,100.00	6,912.66	7,841.94	7,234.38	21.56	20.92	118.09	-561.37	647.80	739.10	699.59	39.51	18.707	
7,200.00	6,986.95	7,777.27	7,234.27	21.59	20.28	112.61	-560.38	583.13	725.16	685.75	39.41	18.402 SF	
7,300.00	7,050.31	7,701.49	7,234.14	21.58	19.57	107.34	-559.22	507.36	719.99	681.00	38.99	18.465	
7,331.51	7,067.75	7,675.60	7,234.09	21.56	19.35	105.76	-558.83	481.47	719.73	680.89	38.84	18.531	
7,400.00	7,101.17	7,615.67	7,233.95	21.54	18.86	102.52	-557.91	421.55	720.73	682.30	38.42	18.757	
7,500.00	7,138.29	7,520.12	7,225.56	21.46	18.18	97.95	-555.73	326.49	724.19	686.37	37.82	19.147	
7,600.00	7,160.75	7,430.81	7,204.99	21.37	17.69	93.93	-552.60	239.71	729.16	691.73	37.42	19.483	
7,700.00	7,168.01	7,346.42	7,174.62	21.26	17.38	90.44	-548.74	161.14	735.19	697.97	37.21	19.755	
7,800.00	7,168.19	7,269.45	7,138.11	21.16	17.19	87.60	-544.50	93.56	743.70	706.52	37.18	20.002	
7,900.00	7,168.37	7,202.59	7,099.99	21.19	17.04	84.69	-540.32	38.83	757.30	720.03	37.27	20.318	
8,000.00	7,168.55	7,145.19	7,062.85	21.90	16.92	81.91	-536.39	-4.74	777.27	739.81	37.46	20.752	
8,100.00	7,168.73	7,100.00	7,030.95	22.80	16.83	79.57	-533.10	-36.56	804.40	766.67	37.73	21.323	
8,200.00	7,168.91	7,050.00	6,993.13	23.78	16.72	76.88	-529.28	-69.02	838.95	801.01	37.94	22.115	
8,300.00	7,169.09	7,018.17	6,967.78	24.84	16.66	75.12	-526.76	-88.10	880.76	842.51	38.25	23.025	
8,400.00	7,169.27	6,987.14	6,942.17	25.95	16.59	73.38	-524.24	-105.44	929.41	890.89	38.52	24.130	
8,500.00	7,169.45	6,960.24	6,919.32	27.12	16.53	71.87	-522.01	-119.45	984.25	945.48	38.77	25.389	
8,600.00	7,169.62	6,936.76	6,898.91	28.33	16.48	70.55	-520.04	-130.87	1,044.60	1,005.61	38.99	26.791	
8,700.00	7,169.80	6,916.16	6,880.66	29.59	16.44	69.39	-518.29	-140.26	1,109.76	1,070.57	39.19	28.319	
8,800.00	7,169.98	6,900.00	6,866.13	30.88	16.40	68.48	-516.91	-147.21	1,179.09	1,139.72	39.36	29.954	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4C-30-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-0.27	119.85	-0.56	119.85					
100.00	100.00	100.00	100.00	3.28	3.28	-0.27	119.85	-0.56	119.85	112.33	7.53	15.919		
200.00	200.00	200.00	200.00	3.31	3.31	-0.27	119.85	-0.56	119.85	112.28	7.57	15.825 CC, ES		
300.00	299.98	301.33	301.31	3.35	3.35	-146.36	119.29	1.14	120.76	113.10	7.66	15.773		
400.00	399.84	402.58	402.41	3.41	3.41	-145.32	117.62	6.24	123.48	115.71	7.78	15.880		
500.00	499.45	503.66	503.09	3.49	3.50	-143.70	114.83	14.72	128.10	120.16	7.95	16.120		
600.00	598.70	604.07	602.77	3.61	3.62	-141.72	111.05	26.23	134.78	126.60	8.18	16.485		
700.00	697.47	703.60	701.48	3.76	3.77	-140.53	107.08	38.28	144.12	135.65	8.46	17.030		
800.00	795.62	802.86	799.94	3.96	3.94	-140.27	103.13	50.29	156.16	147.36	8.80	17.740		
900.00	893.16	901.81	898.08	4.20	4.13	-140.75	99.20	62.27	170.51	161.32	9.19	18.549		
1,000.00	990.62	1,000.72	996.18	4.49	4.34	-141.31	95.26	74.24	185.19	175.57	9.62	19.257		
1,100.00	1,088.07	1,100.38	1,094.28	4.80	4.56	-141.78	91.33	86.21	199.88	189.80	10.08	19.834		
1,200.00	1,185.52	1,201.48	1,192.37	5.13	4.80	-142.19	87.39	98.18	214.58	204.01	10.57	20.298		
1,300.00	1,282.97	1,302.58	1,290.47	5.48	5.06	-142.55	83.45	110.15	229.29	218.20	11.09	20.674		
1,400.00	1,380.43	1,403.67	1,388.57	5.85	5.32	-142.86	79.52	122.12	244.01	232.38	11.63	20.977		
1,500.00	1,477.88	1,504.77	1,486.66	6.23	5.60	-143.14	75.58	134.09	258.74	246.55	12.19	21.222		
1,600.00	1,575.33	1,605.87	1,584.76	6.62	5.88	-143.38	71.65	146.06	273.47	260.70	12.77	21.419		
1,700.00	1,672.79	1,706.97	1,682.85	7.02	6.17	-143.61	67.71	158.04	288.20	274.85	13.36	21.578		
1,800.00	1,770.24	1,808.06	1,780.95	7.42	6.45	-143.81	63.77	170.01	302.94	289.00	13.95	21.722		
1,900.00	1,867.69	1,909.16	1,879.05	7.65	6.59	-143.99	59.84	181.98	317.69	303.80	13.88	22.884		
2,000.00	1,965.14	1,989.74	1,977.14	7.70	6.62	-144.16	55.90	193.95	332.43	318.50	13.93	23.860		
2,100.00	2,062.60	2,088.64	2,075.24	7.78	6.66	-144.31	51.97	205.92	347.18	333.16	14.02	24.766		
2,200.00	2,160.05	2,187.55	2,173.34	7.87	6.71	-144.45	48.03	217.89	361.93	347.79	14.14	25.603		
2,300.00	2,257.50	2,286.45	2,271.43	7.98	6.78	-144.58	44.10	229.86	376.68	362.40	14.28	26.371		
2,400.00	2,354.95	2,385.35	2,369.53	8.11	6.87	-144.70	40.16	241.83	391.44	376.98	14.46	27.068		
2,500.00	2,452.41	2,484.25	2,467.63	8.25	6.96	-144.81	36.22	253.80	406.19	391.53	14.67	27.695		
2,600.00	2,549.86	2,583.16	2,565.72	8.41	7.07	-144.91	32.29	265.77	420.95	406.05	14.90	28.253		
2,700.00	2,647.31	2,682.06	2,663.82	8.59	7.19	-145.01	28.35	277.74	435.71	420.55	15.16	28.745		
2,800.00	2,744.76	2,780.96	2,761.91	8.78	7.33	-145.09	24.42	289.71	450.47	435.03	15.44	29.175		
2,900.00	2,842.22	2,879.86	2,860.01	8.98	7.47	-145.18	20.48	301.69	465.23	449.48	15.75	29.546		
3,000.00	2,939.67	2,978.77	2,958.11	9.20	7.62	-145.26	16.54	313.66	479.99	463.92	16.07	29.862		
3,100.00	3,037.12	3,077.67	3,056.20	9.43	7.78	-145.33	12.61	325.63	494.75	478.33	16.42	30.130		
3,200.00	3,134.58	3,176.57	3,154.30	9.66	7.96	-145.40	8.67	337.60	509.51	492.73	16.79	30.351		
3,300.00	3,232.03	3,275.47	3,252.40	9.91	8.14	-145.47	4.74	349.57	524.28	507.11	17.17	30.532		
3,400.00	3,329.48	3,374.38	3,350.49	10.17	8.32	-145.53	0.80	361.54	539.04	521.47	17.57	30.677		
3,500.00	3,426.93	3,473.28	3,448.59	10.43	8.52	-145.59	-3.13	373.51	553.81	535.82	17.99	30.788		
3,600.00	3,524.39	3,572.18	3,546.69	10.71	8.72	-145.64	-7.07	385.48	568.57	550.15	18.42	30.871		
3,700.00	3,621.84	3,671.08	3,644.78	10.99	8.93	-145.70	-11.01	397.45	583.34	564.48	18.86	30.928		
3,800.00	3,719.29	3,769.99	3,742.88	11.27	9.14	-145.75	-14.94	409.42	598.10	578.79	19.32	30.963		
3,900.00	3,816.74	3,868.89	3,840.98	11.57	9.36	-145.79	-18.88	421.39	612.87	593.09	19.78	30.979		
4,000.00	3,914.20	3,967.79	3,939.07	11.87	9.58	-145.84	-22.81	433.36	627.64	607.38	20.26	30.978		
4,100.00	4,011.65	4,066.69	4,037.17	12.17	9.81	-145.88	-26.75	445.34	642.40	621.66	20.75	30.962		
4,200.00	4,109.10	4,165.60	4,135.26	12.48	10.05	-145.92	-30.68	457.31	657.17	635.93	21.24	30.933		
4,300.00	4,206.56	4,264.50	4,233.36	12.79	10.29	-145.96	-34.62	469.28	671.94	650.19	21.75	30.894		
4,400.00	4,304.01	4,363.40	4,331.46	13.11	10.53	-146.00	-38.56	481.25	686.71	664.45	22.26	30.845		
4,500.00	4,401.46	4,462.30	4,429.55	13.43	10.77	-146.04	-42.49	493.22	701.48	678.69	22.78	30.789		
4,600.00	4,498.91	4,561.21	4,527.65	13.76	11.02	-146.07	-46.43	505.19	716.25	692.94	23.31	30.726		
4,700.00	4,596.37	4,660.11	4,625.75	14.09	11.27	-146.11	-50.36	517.16	731.01	707.17	23.84	30.658		
4,800.00	4,693.82	4,759.01	4,723.84	14.42	11.53	-146.14	-54.30	529.13	745.78	721.40	24.38	30.585		
4,900.00	4,791.27	4,857.91	4,821.94	14.75	11.79	-146.17	-58.24	541.10	760.55	735.63	24.93	30.509		
5,000.00	4,888.72	4,956.82	4,920.04	15.09	12.05	-146.20	-62.17	553.07	775.32	749.84	25.48	30.430		
5,100.00	4,986.18	5,055.72	5,018.13	15.43	12.31	-146.23	-66.11	565.04	790.09	764.06	26.03	30.348		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4C-30-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,083.63	5,154.62	5,116.23	15.78	12.57	-146.26	-70.04	577.01	804.86	778.27	26.59	30.265		
5,300.00	5,181.08	5,253.52	5,214.33	16.12	12.84	-146.28	-73.98	588.99	819.63	792.48	27.16	30.180		
5,400.00	5,278.53	5,352.43	5,312.42	16.47	13.11	-146.31	-77.91	600.96	834.41	806.68	27.73	30.094		
5,500.00	5,375.99	5,451.33	5,410.52	16.82	13.38	-146.33	-81.85	612.93	849.18	820.88	28.30	30.008		
5,600.00	5,473.44	5,550.23	5,508.61	17.17	13.65	-146.36	-85.79	624.90	863.95	835.07	28.87	29.922		
5,700.00	5,570.89	5,649.13	5,606.71	17.52	13.93	-146.38	-89.72	636.87	878.72	849.27	29.45	29.835		
5,800.00	5,668.35	5,748.04	5,704.81	17.88	14.20	-146.40	-93.66	648.84	893.49	863.45	30.03	29.749		
5,900.00	5,765.80	5,846.94	5,802.90	18.23	14.48	-146.42	-97.59	660.81	908.26	877.64	30.62	29.663		
6,000.00	5,863.25	5,945.84	5,901.00	18.59	14.76	-146.45	-101.53	672.78	923.03	891.82	31.21	29.578		
6,100.00	5,960.70	6,044.74	5,999.10	18.95	15.04	-146.47	-105.47	684.75	937.80	906.01	31.80	29.494		
6,200.00	6,058.16	6,143.65	6,097.19	19.31	15.32	-146.49	-109.40	696.72	952.57	920.19	32.39	29.410		
6,300.00	6,155.61	6,242.55	6,195.29	19.67	15.60	-146.50	-113.34	708.69	967.35	934.36	32.98	29.327		
6,400.00	6,253.06	6,341.45	6,293.39	20.03	15.89	-146.52	-117.27	720.66	982.12	948.54	33.58	29.245		
6,500.00	6,350.51	6,440.35	6,391.48	20.40	16.17	-146.54	-121.21	732.64	996.89	962.71	34.18	29.165		
6,600.00	6,447.97	6,539.26	6,489.58	20.76	16.46	-146.56	-125.14	744.61	1,011.66	976.88	34.78	29.085		
6,700.00	6,545.82	6,637.94	6,587.46	21.04	16.74	-146.58	-129.07	756.55	1,026.53	991.17	35.35	29.036		
6,800.00	6,643.56	6,735.34	6,684.16	21.24	17.01	-140.34	-132.95	767.46	1,041.69	1,005.81	35.88	29.030		
6,900.00	6,738.83	6,835.34	6,783.97	21.40	17.17	-121.62	-136.92	766.48	1,057.16	1,020.89	36.27	29.143		
7,000.00	6,829.27	6,939.28	6,886.22	21.50	17.29	-112.68	-140.95	748.91	1,072.56	1,036.02	36.55	29.347		
7,100.00	6,912.66	7,047.62	6,988.27	21.56	17.35	-107.77	-144.93	713.16	1,087.48	1,050.76	36.72	29.618		
7,200.00	6,986.95	7,160.69	7,086.72	21.59	17.38	-104.78	-148.72	657.97	1,101.44	1,064.63	36.81	29.920		
7,300.00	7,050.31	7,278.63	7,177.33	21.58	17.40	-102.85	-152.15	582.82	1,113.98	1,077.08	36.90	30.187		
7,400.00	7,101.17	7,401.22	7,255.17	21.54	17.45	-101.57	-155.02	488.40	1,124.63	1,087.55	37.08	30.331		
7,500.00	7,138.29	7,527.82	7,315.07	21.46	17.59	-100.72	-157.14	377.12	1,132.96	1,095.50	37.46	30.244		
7,600.00	7,160.75	7,657.35	7,352.39	21.37	17.88	-100.18	-158.33	253.33	1,138.62	1,100.48	38.13	29.860		
7,700.00	7,168.01	7,785.93	7,364.01	21.26	18.37	-99.89	-158.48	125.49	1,141.37	1,102.26	39.11	29.184		
7,800.00	7,168.19	7,885.92	7,364.14	21.16	18.92	-99.88	-158.25	25.50	1,142.84	1,102.59	40.25	28.390		
7,900.00	7,168.37	7,985.91	7,364.26	21.19	19.60	-99.86	-158.01	-74.49	1,144.31	1,102.68	41.63	27.489		
8,000.00	7,168.55	8,085.90	7,364.39	21.90	20.40	-99.84	-157.78	-174.47	1,145.78	1,102.56	43.21	26.514		
8,100.00	7,168.73	8,185.88	7,364.52	22.80	21.31	-99.83	-157.54	-274.46	1,147.25	1,102.26	44.99	25.501		
8,200.00	7,168.91	8,285.87	7,364.65	23.78	22.31	-99.81	-157.31	-374.45	1,148.72	1,101.78	46.93	24.477		
8,300.00	7,169.09	8,385.86	7,364.78	24.84	23.39	-99.80	-157.07	-474.44	1,150.19	1,101.16	49.02	23.463		
8,400.00	7,169.27	8,485.85	7,364.90	25.95	24.54	-99.78	-156.84	-574.43	1,151.65	1,100.41	51.24	22.475		
8,500.00	7,169.45	8,585.84	7,365.03	27.12	25.74	-99.77	-156.60	-674.42	1,153.12	1,099.55	53.57	21.524		
8,600.00	7,169.62	8,685.83	7,365.16	28.33	26.99	-99.75	-156.37	-774.40	1,154.59	1,098.59	56.01	20.616		
8,700.00	7,169.80	8,785.82	7,365.29	29.59	28.29	-99.74	-156.13	-874.39	1,156.06	1,097.54	58.52	19.754		
8,800.00	7,169.98	8,885.81	7,365.42	30.88	29.62	-99.72	-155.90	-974.38	1,157.53	1,096.42	61.12	18.940		
8,900.00	7,170.16	8,985.79	7,365.54	32.21	30.99	-99.71	-155.66	-1,074.37	1,159.00	1,095.23	63.78	18.173		
9,000.00	7,170.34	9,085.78	7,365.67	33.56	32.39	-99.69	-155.43	-1,174.36	1,160.47	1,093.98	66.49	17.452		
9,100.00	7,170.52	9,185.77	7,365.80	34.94	33.81	-99.68	-155.19	-1,274.35	1,161.94	1,092.68	69.26	16.775		
9,200.00	7,170.70	9,285.76	7,365.93	36.35	35.25	-99.66	-154.96	-1,374.34	1,163.41	1,091.33	72.08	16.141		
9,300.00	7,170.88	9,385.75	7,366.06	37.77	36.71	-99.65	-154.72	-1,474.32	1,164.88	1,089.95	74.93	15.545		
9,400.00	7,171.06	9,485.74	7,366.19	39.22	38.19	-99.63	-154.49	-1,574.31	1,166.35	1,088.52	77.83	14.987		
9,500.00	7,171.24	9,585.73	7,366.31	40.68	39.69	-99.62	-154.25	-1,674.30	1,167.82	1,087.07	80.75	14.462		
9,600.00	7,171.42	9,685.72	7,366.44	42.15	41.19	-99.60	-154.02	-1,774.29	1,169.29	1,085.59	83.70	13.970		
9,700.00	7,171.60	9,785.70	7,366.57	43.64	42.71	-99.59	-153.78	-1,874.28	1,170.76	1,084.08	86.68	13.507		
9,800.00	7,171.78	9,885.69	7,366.70	45.14	44.25	-99.57	-153.55	-1,974.27	1,172.23	1,082.55	89.68	13.071		
9,900.00	7,171.95	9,985.68	7,366.83	46.65	45.79	-99.56	-153.31	-2,074.25	1,173.70	1,081.00	92.70	12.661		
10,000.00	7,172.13	10,085.67	7,366.95	48.18	47.34	-99.55	-153.08	-2,174.24	1,175.17	1,079.43	95.74	12.274		
10,100.00	7,172.31	10,185.66	7,367.08	49.71	48.89	-99.53	-152.84	-2,274.23	1,176.64	1,077.84	98.80	11.909		
10,200.00	7,172.49	10,285.65	7,367.21	51.25	50.46	-99.52	-152.61	-2,374.22	1,178.11	1,076.24	101.88	11.564		
10,300.00	7,172.67	10,385.64	7,367.34	52.79	52.03	-99.50	-152.37	-2,474.21	1,179.59	1,074.62	104.97	11.238		



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4C-30-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,172.85	10,485.63	7,367.47	54.35	53.61	99.49	-152.14	-2,574.20	1,181.06	1,072.99	108.07	10.929		
10,500.00	7,173.03	10,585.61	7,367.60	55.91	55.19	99.47	-151.90	-2,674.18	1,182.53	1,071.35	111.18	10.636		
10,600.00	7,173.21	10,685.60	7,367.72	57.48	56.78	99.46	-151.66	-2,774.17	1,184.00	1,069.69	114.31	10.358		
10,700.00	7,173.39	10,785.59	7,367.85	59.05	58.37	99.44	-151.43	-2,874.16	1,185.47	1,068.03	117.44	10.094		
10,800.00	7,173.57	10,885.59	7,367.98	60.62	59.97	99.44	-151.19	-2,974.16	1,185.41	1,064.82	120.58	9.830		
10,900.00	7,173.75	10,985.58	7,368.11	62.20	61.57	99.44	-150.96	-3,074.15	1,184.49	1,060.75	123.74	9.573		
11,000.00	7,173.93	11,085.58	7,368.24	63.79	63.18	99.45	-150.72	-3,174.15	1,183.57	1,056.67	126.90	9.327		
11,100.00	7,174.11	11,185.58	7,368.36	65.38	64.79	99.45	-150.49	-3,274.14	1,182.65	1,052.58	130.07	9.093		
11,200.00	7,174.29	11,285.57	7,368.49	66.97	66.40	99.46	-150.25	-3,374.14	1,181.73	1,048.48	133.24	8.869		
11,300.00	7,174.47	11,385.57	7,368.62	68.57	68.01	99.46	-150.02	-3,474.13	1,180.81	1,044.38	136.43	8.655		
11,400.00	7,174.65	11,485.56	7,368.75	70.17	69.63	99.47	-149.78	-3,574.13	1,179.89	1,040.28	139.61	8.451		
11,500.00	7,174.83	11,585.56	7,368.88	71.77	71.25	99.47	-149.55	-3,674.12	1,178.97	1,036.17	142.81	8.256		
11,600.00	7,175.01	11,685.55	7,369.00	73.38	72.87	99.48	-149.31	-3,774.12	1,178.05	1,032.05	146.00	8.069		
11,700.00	7,175.19	11,785.55	7,369.13	74.99	74.49	99.48	-149.08	-3,874.12	1,177.13	1,027.93	149.21	7.889		
11,800.00	7,175.36	11,885.55	7,369.26	76.60	76.12	99.49	-148.84	-3,974.11	1,176.21	1,023.80	152.41	7.717		
11,900.00	7,175.54	11,985.54	7,369.39	78.22	77.75	99.49	-148.61	-4,074.11	1,175.29	1,019.67	155.62	7.552		
12,000.00	7,175.72	12,085.54	7,369.52	79.83	79.38	99.50	-148.37	-4,174.10	1,174.37	1,015.54	158.84	7.394		
12,100.00	7,175.90	12,185.53	7,369.65	81.45	81.01	99.50	-148.14	-4,274.10	1,173.46	1,011.40	162.06	7.241		
12,200.00	7,176.08	12,285.53	7,369.77	83.08	82.64	99.51	-147.90	-4,374.09	1,172.54	1,007.26	165.28	7.094		
12,300.00	7,176.26	12,385.52	7,369.90	84.70	84.28	99.51	-147.67	-4,474.09	1,171.62	1,003.11	168.50	6.953		
12,400.00	7,176.44	12,485.52	7,370.03	86.32	85.92	99.52	-147.43	-4,574.08	1,170.70	998.97	171.73	6.817		
12,500.00	7,176.62	12,585.52	7,370.16	87.95	87.55	99.52	-147.20	-4,674.08	1,169.78	994.82	174.96	6.686		
12,600.00	7,176.80	12,685.51	7,370.29	89.58	89.19	99.53	-146.96	-4,774.07	1,168.86	990.66	178.20	6.559		
12,700.00	7,176.98	12,785.51	7,370.41	91.21	90.83	99.53	-146.73	-4,874.07	1,167.94	986.51	181.43	6.437		
12,800.00	7,177.16	12,885.50	7,370.54	92.84	92.47	99.54	-146.49	-4,974.06	1,167.02	982.35	184.67	6.319		
12,900.00	7,177.34	12,985.50	7,370.67	94.47	94.12	99.54	-146.26	-5,074.06	1,166.10	978.19	187.91	6.206		
13,000.00	7,177.52	13,085.49	7,370.80	96.11	95.76	99.55	-146.02	-5,174.06	1,165.18	974.03	191.16	6.095		
13,100.00	7,177.70	13,185.49	7,370.93	97.74	97.40	99.55	-145.79	-5,274.05	1,164.26	969.86	194.40	5.989		
13,200.00	7,177.88	13,285.49	7,371.06	99.38	99.05	99.56	-145.55	-5,374.05	1,163.35	965.70	197.65	5.886		
13,300.00	7,178.06	13,385.48	7,371.18	101.02	100.69	99.56	-145.32	-5,474.04	1,162.43	961.53	200.90	5.786		
13,400.00	7,178.24	13,485.48	7,371.31	102.66	102.34	99.57	-145.08	-5,574.04	1,161.51	957.36	204.15	5.690		
13,500.00	7,178.42	13,585.47	7,371.44	104.30	103.99	99.57	-144.85	-5,674.03	1,160.59	953.19	207.40	5.596		
13,600.00	7,178.60	13,685.47	7,371.57	105.94	105.64	99.58	-144.61	-5,774.03	1,159.67	949.02	210.65	5.505		
13,700.00	7,178.78	13,785.46	7,371.70	107.58	107.29	99.58	-144.38	-5,874.02	1,158.75	944.84	213.91	5.417		
13,800.00	7,178.96	13,885.46	7,371.82	109.23	108.94	99.59	-144.14	-5,974.02	1,157.83	940.67	217.17	5.332		
13,900.00	7,179.14	13,985.46	7,371.95	110.87	110.59	99.59	-143.90	-6,074.01	1,156.91	936.49	220.42	5.249		
14,000.00	7,179.32	14,085.45	7,372.08	112.51	112.24	99.60	-143.67	-6,174.01	1,155.99	932.31	223.68	5.168		
14,100.00	7,179.50	14,185.45	7,372.21	114.16	113.89	99.60	-143.43	-6,274.00	1,155.07	928.13	226.94	5.090		
14,200.00	7,179.68	14,285.44	7,372.34	115.81	115.54	99.61	-143.20	-6,374.00	1,154.16	923.95	230.21	5.014		
14,300.00	7,179.86	14,385.44	7,372.46	117.45	117.19	99.61	-142.96	-6,474.00	1,153.24	919.77	233.47	4.940		
14,400.00	7,180.04	14,485.43	7,372.59	119.10	118.85	99.62	-142.73	-6,573.99	1,152.32	915.58	236.73	4.868		
14,500.00	7,180.22	14,585.43	7,372.72	120.75	120.50	99.62	-142.49	-6,673.99	1,151.40	911.40	240.00	4.798		
14,600.00	7,180.40	14,685.43	7,372.85	122.40	122.16	99.63	-142.26	-6,773.98	1,150.48	907.21	243.27	4.729		
14,700.00	7,180.58	14,785.42	7,372.98	124.05	123.81	99.63	-142.02	-6,873.98	1,149.56	903.03	246.53	4.663		
14,800.00	7,180.76	14,885.42	7,373.11	125.70	125.47	99.64	-141.79	-6,973.97	1,148.64	898.84	249.80	4.598		
14,900.00	7,180.94	14,985.41	7,373.23	127.35	127.12	99.64	-141.55	-7,073.97	1,147.72	894.65	253.07	4.535		
15,000.00	7,181.11	15,085.41	7,373.36	129.00	128.78	99.65	-141.32	-7,173.96	1,146.80	890.47	256.34	4.474		
15,100.00	7,181.29	15,185.40	7,373.49	130.65	130.44	99.66	-141.08	-7,273.96	1,145.89	886.28	259.61	4.414		
15,200.00	7,181.47	15,285.40	7,373.62	132.31	132.09	99.66	-140.85	-7,373.95	1,144.97	882.09	262.88	4.355		
15,300.00	7,181.65	15,385.40	7,373.75	133.96	133.75	99.67	-140.61	-7,473.95	1,144.05	877.90	266.15	4.298		
15,400.00	7,181.83	15,485.39	7,373.87	135.61	135.41	99.67	-140.38	-7,573.94	1,143.13	873.70	269.43	4.243		
15,492.61	7,182.00	15,578.00	7,373.99	137.14	136.94	99.68	-140.16	-7,666.55	1,142.28	869.82	272.46	4.193 SF		



## Hewlett-Packard

### Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-0.32	99.82	-0.56	99.82					
100.00	100.00	100.00	100.00	3.28	3.28	-0.32	99.82	-0.56	99.82	92.29	7.53	13.259		
200.00	200.00	200.00	200.00	3.31	3.31	-0.32	99.82	-0.56	99.82	92.25	7.57	13.180 CC, ES		
300.00	299.98	301.21	301.19	3.35	3.35	-146.36	99.21	1.12	100.67	93.02	7.66	13.150		
400.00	399.84	402.35	402.18	3.41	3.41	-145.16	97.38	6.16	103.25	95.47	7.78	13.279		
500.00	499.45	503.34	502.77	3.49	3.50	-143.29	94.33	14.52	107.62	99.68	7.95	13.545		
600.00	598.70	603.96	602.63	3.61	3.62	-140.95	90.11	26.13	113.92	105.74	8.17	13.936		
700.00	697.47	703.52	701.27	3.76	3.77	-139.30	85.49	38.83	122.71	114.25	8.46	14.498		
800.00	795.62	802.85	799.68	3.96	3.94	-138.83	80.88	51.50	134.18	125.37	8.81	15.231		
900.00	893.16	901.90	897.81	4.20	4.14	-139.25	76.28	64.13	147.91	138.70	9.21	16.067		
1,000.00	990.62	1,000.90	995.89	4.49	4.35	-139.76	71.68	76.75	161.95	152.32	9.64	16.803		
1,100.00	1,088.07	1,100.10	1,093.98	4.80	4.59	-140.19	67.09	89.38	176.01	165.90	10.11	17.414		
1,200.00	1,185.52	1,201.10	1,192.06	5.13	4.83	-140.56	62.49	102.00	190.07	179.46	10.61	17.912		
1,300.00	1,282.97	1,302.10	1,290.14	5.48	5.10	-140.88	57.90	114.63	204.14	193.00	11.14	18.323		
1,400.00	1,380.43	1,403.11	1,388.23	5.85	5.37	-141.15	53.30	127.25	218.22	206.52	11.69	18.661		
1,500.00	1,477.88	1,504.11	1,486.31	6.23	5.65	-141.40	48.71	139.88	232.30	220.03	12.27	18.940		
1,600.00	1,575.33	1,605.11	1,584.39	6.62	5.94	-141.61	44.11	152.50	246.38	233.53	12.85	19.170		
1,700.00	1,672.79	1,706.11	1,682.48	7.02	6.23	-141.80	39.52	165.13	260.47	247.01	13.45	19.360		
1,800.00	1,770.24	1,807.11	1,780.56	7.42	6.52	-141.97	34.92	177.76	274.56	260.50	14.06	19.531		
1,900.00	1,867.69	1,908.11	1,878.64	7.65	6.68	-142.13	30.33	190.38	288.65	274.65	14.00	20.616		
2,000.00	1,965.14	1,990.89	1,976.73	7.70	6.70	-142.27	25.73	203.01	302.74	288.69	14.06	21.539		
2,100.00	2,062.60	2,089.89	2,074.81	7.78	6.75	-142.40	21.13	215.63	316.84	302.69	14.15	22.398		
2,200.00	2,160.05	2,188.89	2,172.89	7.87	6.81	-142.52	16.54	228.26	330.93	316.67	14.27	23.195		
2,300.00	2,257.50	2,287.89	2,270.98	7.98	6.88	-142.62	11.94	240.88	345.03	330.61	14.42	23.927		
2,400.00	2,354.95	2,386.89	2,369.06	8.11	6.97	-142.72	7.35	253.51	359.13	344.53	14.60	24.594		
2,500.00	2,452.41	2,485.89	2,467.14	8.25	7.07	-142.82	2.75	266.13	373.23	358.42	14.81	25.196		
2,600.00	2,549.86	2,584.89	2,565.23	8.41	7.18	-142.90	-1.84	278.76	387.33	372.28	15.05	25.735		
2,700.00	2,647.31	2,683.89	2,663.31	8.59	7.30	-142.98	-6.44	291.38	401.43	386.12	15.31	26.212		
2,800.00	2,744.76	2,782.89	2,761.39	8.78	7.44	-143.05	-11.03	304.01	415.53	399.93	15.60	26.631		
2,900.00	2,842.22	2,881.88	2,859.48	8.98	7.59	-143.12	-15.63	316.64	429.63	413.72	15.92	26.996		
3,000.00	2,939.67	2,980.88	2,957.56	9.20	7.74	-143.19	-20.22	329.26	443.74	427.49	16.25	27.310		
3,100.00	3,037.12	3,079.88	3,055.64	9.43	7.91	-143.25	-24.82	341.89	457.84	441.24	16.60	27.577		
3,200.00	3,134.58	3,178.88	3,153.73	9.66	8.08	-143.30	-29.41	354.51	471.95	454.97	16.97	27.802		
3,300.00	3,232.03	3,277.88	3,251.81	9.91	8.27	-143.36	-34.01	367.14	486.05	468.68	17.37	27.989		
3,400.00	3,329.48	3,376.88	3,349.89	10.17	8.46	-143.41	-38.60	379.76	500.15	482.38	17.77	28.142		
3,500.00	3,426.93	3,475.88	3,447.98	10.43	8.66	-143.46	-43.20	392.39	514.26	496.06	18.20	28.264		
3,600.00	3,524.39	3,574.88	3,546.06	10.71	8.87	-143.50	-47.80	405.01	528.37	509.73	18.63	28.358		
3,700.00	3,621.84	3,673.88	3,644.14	10.99	9.08	-143.55	-52.39	417.64	542.47	523.39	19.08	28.428		
3,800.00	3,719.29	3,772.88	3,742.23	11.27	9.30	-143.59	-56.99	430.27	556.58	537.03	19.54	28.477		
3,900.00	3,816.74	3,871.88	3,840.31	11.57	9.52	-143.62	-61.58	442.89	570.68	550.67	20.02	28.508		
4,000.00	3,914.20	3,970.88	3,938.39	11.87	9.75	-143.66	-66.18	455.52	584.79	564.29	20.50	28.522		
4,100.00	4,011.65	4,069.88	4,036.48	12.17	9.99	-143.70	-70.77	468.14	598.90	577.90	21.00	28.522		
4,200.00	4,109.10	4,168.88	4,134.56	12.48	10.23	-143.73	-75.37	480.77	613.00	591.50	21.50	28.511		
4,300.00	4,206.56	4,267.88	4,232.64	12.79	10.47	-143.76	-79.96	493.39	627.11	605.10	22.01	28.488		
4,400.00	4,304.01	4,366.87	4,330.73	13.11	10.72	-143.79	-84.56	506.02	641.22	618.69	22.53	28.457		
4,500.00	4,401.46	4,465.87	4,428.81	13.43	10.97	-143.82	-89.15	518.64	655.33	632.27	23.06	28.417		
4,600.00	4,498.91	4,564.87	4,526.89	13.76	11.22	-143.85	-93.75	531.27	669.44	645.84	23.60	28.372		
4,700.00	4,596.37	4,663.87	4,624.98	14.09	11.48	-143.88	-98.34	543.89	683.54	659.41	24.14	28.321		
4,800.00	4,693.82	4,762.87	4,723.06	14.42	11.74	-143.90	-102.94	556.52	697.65	672.97	24.68	28.265		
4,900.00	4,791.27	4,861.87	4,821.14	14.75	12.00	-143.93	-107.53	569.15	711.76	686.52	25.24	28.205		
5,000.00	4,888.72	4,960.87	4,919.23	15.09	12.27	-143.95	-112.13	581.77	725.87	700.08	25.79	28.142		
5,100.00	4,986.18	5,059.87	5,017.31	15.43	12.53	-143.97	-116.72	594.40	739.98	713.62	26.36	28.077		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30A-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,083.63	5,158.87	5,115.39	15.78	12.80	-144.00	-121.32	607.02	754.09	727.16	26.92	28.010		
5,300.00	5,181.08	5,257.87	5,213.48	16.12	13.08	-144.02	-125.92	619.65	768.19	740.70	27.49	27.941		
5,400.00	5,278.53	5,356.87	5,311.56	16.47	13.35	-144.04	-130.51	632.27	782.30	754.23	28.07	27.871		
5,500.00	5,375.99	5,455.87	5,409.64	16.82	13.63	-144.06	-135.11	644.90	796.41	767.76	28.65	27.800		
5,600.00	5,473.44	5,554.87	5,507.73	17.17	13.90	-144.08	-139.70	657.52	810.52	781.29	29.23	27.728		
5,700.00	5,570.89	5,653.87	5,605.81	17.52	14.18	-144.10	-144.30	670.15	824.63	794.81	29.82	27.656		
5,800.00	5,668.35	5,752.86	5,703.89	17.88	14.47	-144.11	-148.89	682.77	838.74	808.33	30.41	27.585		
5,900.00	5,765.80	5,851.86	5,801.98	18.23	14.75	-144.13	-153.49	695.40	852.85	821.85	31.00	27.513		
6,000.00	5,863.25	5,950.86	5,900.06	18.59	15.03	-144.15	-158.08	708.03	866.96	835.36	31.59	27.441		
6,100.00	5,960.70	6,049.86	5,998.14	18.95	15.32	-144.16	-162.68	720.65	881.07	848.88	32.19	27.370		
6,200.00	6,058.16	6,148.86	6,096.23	19.31	15.60	-144.18	-167.27	733.28	895.18	862.39	32.79	27.299		
6,300.00	6,155.61	6,247.86	6,194.31	19.67	15.89	-144.19	-171.87	745.90	909.29	875.89	33.39	27.229		
6,400.00	6,253.06	6,346.86	6,292.39	20.03	16.18	-144.21	-176.46	758.53	923.40	889.40	34.00	27.160		
6,500.00	6,350.51	6,448.42	6,393.31	20.40	16.42	-144.41	-181.18	768.41	937.42	902.87	34.55	27.134		
6,600.00	6,447.97	6,548.58	6,493.14	20.76	16.56	-145.50	-185.81	763.48	951.23	916.29	34.93	27.229		
6,700.00	6,545.82	6,642.94	6,585.39	21.04	16.65	178.36	-190.05	744.56	965.64	930.48	35.16	27.465		
6,800.00	6,643.56	6,733.76	6,670.63	21.24	16.70	137.14	-193.93	713.65	980.95	945.68	35.27	27.810		
6,900.00	6,738.83	6,821.72	6,748.18	21.40	16.72	115.94	-197.43	672.45	996.67	961.36	35.32	28.220		
7,000.00	6,829.27	6,907.34	6,817.53	21.50	16.73	104.68	-200.52	622.44	1,012.26	976.94	35.32	28.660		
7,100.00	6,912.66	6,991.08	6,878.28	21.56	16.74	97.68	-203.19	564.96	1,027.18	991.87	35.31	29.087		
7,200.00	6,986.95	7,073.32	6,930.12	21.59	16.77	92.85	-205.43	501.22	1,040.96	1,005.61	35.35	29.448		
7,300.00	7,050.31	7,154.40	6,972.77	21.58	16.83	89.37	-207.23	432.35	1,053.16	1,017.69	35.47	29.693		
7,400.00	7,101.17	7,234.61	7,006.02	21.54	16.94	86.85	-208.58	359.44	1,063.40	1,027.67	35.72	29.767		
7,500.00	7,138.29	7,314.18	7,029.72	21.46	17.12	85.11	-209.47	283.53	1,071.37	1,035.23	36.14	29.642		
7,600.00	7,160.75	7,393.36	7,043.72	21.37	17.38	84.05	-209.92	205.66	1,076.86	1,040.11	36.74	29.306		
7,700.00	7,168.01	7,473.72	7,048.00	21.26	17.72	83.62	-209.90	125.46	1,079.69	1,042.17	37.52	28.773		
7,800.00	7,168.19	7,573.71	7,048.01	21.16	18.30	83.62	-209.63	25.47	1,081.24	1,042.63	38.61	28.007		
7,900.00	7,168.37	7,673.70	7,048.02	21.19	19.01	83.62	-209.36	-74.51	1,082.78	1,042.85	39.93	27.117		
8,000.00	7,168.55	7,773.69	7,048.04	21.90	19.84	83.62	-209.09	-174.50	1,084.32	1,042.84	41.48	26.139		
8,100.00	7,168.73	7,873.68	7,048.05	22.80	20.78	83.62	-208.82	-274.49	1,085.86	1,042.62	43.24	25.113		
8,200.00	7,168.91	7,973.66	7,048.06	23.78	21.81	83.62	-208.56	-374.48	1,087.40	1,042.23	45.18	24.070		
8,300.00	7,169.09	8,073.65	7,048.07	24.84	22.92	83.62	-208.29	-474.47	1,088.95	1,041.68	47.27	23.037		
8,400.00	7,169.27	8,173.64	7,048.09	25.95	24.09	83.62	-208.02	-574.45	1,090.49	1,040.99	49.50	22.030		
8,500.00	7,169.45	8,273.63	7,048.10	27.12	25.32	83.62	-207.75	-674.44	1,092.03	1,040.18	51.85	21.062		
8,600.00	7,169.62	8,373.62	7,048.11	28.33	26.60	83.62	-207.48	-774.43	1,093.57	1,039.27	54.30	20.139		
8,700.00	7,169.80	8,473.60	7,048.13	29.59	27.92	83.62	-207.21	-874.42	1,095.11	1,038.27	56.85	19.265		
8,800.00	7,169.98	8,573.59	7,048.14	30.88	29.27	83.62	-206.95	-974.40	1,096.66	1,037.19	59.47	18.442		
8,900.00	7,170.16	8,673.58	7,048.15	32.21	30.66	83.62	-206.68	-1,074.39	1,098.20	1,036.04	62.16	17.668		
9,000.00	7,170.34	8,773.57	7,048.16	33.56	32.07	83.62	-206.41	-1,174.38	1,099.74	1,034.83	64.91	16.943		
9,100.00	7,170.52	8,873.56	7,048.18	34.94	33.51	83.62	-206.14	-1,274.37	1,101.28	1,033.57	67.71	16.265		
9,200.00	7,170.70	8,973.54	7,048.19	36.35	34.97	83.62	-205.87	-1,374.36	1,102.82	1,032.27	70.56	15.630		
9,300.00	7,170.88	9,073.53	7,048.20	37.77	36.44	83.62	-205.60	-1,474.34	1,104.37	1,030.92	73.45	15.036		
9,400.00	7,171.06	9,173.52	7,048.22	39.22	37.94	83.62	-205.33	-1,574.33	1,105.91	1,029.54	76.37	14.480		
9,500.00	7,171.24	9,273.51	7,048.23	40.68	39.44	83.62	-205.07	-1,674.32	1,107.45	1,028.12	79.33	13.960		
9,600.00	7,171.42	9,373.50	7,048.24	42.15	40.96	83.62	-204.80	-1,774.31	1,108.99	1,026.68	82.32	13.472		
9,700.00	7,171.60	9,473.49	7,048.25	43.64	42.49	83.62	-204.53	-1,874.29	1,110.54	1,025.21	85.33	13.015		
9,800.00	7,171.78	9,573.47	7,048.27	45.14	44.04	83.62	-204.26	-1,974.28	1,112.08	1,023.71	88.36	12.585		
9,900.00	7,171.95	9,673.46	7,048.28	46.65	45.59	83.62	-203.99	-2,074.27	1,113.62	1,022.20	91.42	12.182		
10,000.00	7,172.13	9,773.45	7,048.29	48.18	47.14	83.62	-203.72	-2,174.26	1,115.16	1,020.67	94.49	11.802		
10,100.00	7,172.31	9,873.44	7,048.31	49.71	48.71	83.63	-203.46	-2,274.25	1,116.70	1,019.12	97.58	11.443		
10,200.00	7,172.49	9,973.43	7,048.32	51.25	50.28	83.63	-203.19	-2,374.23	1,118.25	1,017.56	100.69	11.106		
10,300.00	7,172.67	10,073.41	7,048.33	52.79	51.86	83.63	-202.92	-2,474.22	1,119.79	1,015.98	103.81	10.787		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30A-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,172.85	10,173.40	7,048.34	54.35	53.45	83.63	-202.65	-2,574.21	1,121.33	1,014.39	106.94	10.485		
10,500.00	7,173.03	10,273.39	7,048.36	55.91	55.04	83.63	-202.38	-2,674.20	1,122.87	1,012.78	110.09	10.200		
10,600.00	7,173.21	10,373.38	7,048.37	57.48	56.63	83.63	-202.11	-2,774.18	1,124.41	1,011.17	113.24	9.929		
10,700.00	7,173.39	10,473.37	7,048.38	59.05	58.23	83.63	-201.84	-2,874.17	1,125.96	1,009.55	116.41	9.672		
10,800.00	7,173.57	10,573.36	7,048.40	60.62	59.83	83.62	-201.58	-2,974.17	1,125.95	1,006.37	119.58	9.416		
10,900.00	7,173.75	10,673.36	7,048.41	62.20	61.44	83.60	-201.31	-3,074.16	1,125.09	1,002.32	122.77	9.165		
11,000.00	7,173.93	10,773.35	7,048.42	63.79	63.05	83.59	-201.04	-3,174.16	1,124.22	998.27	125.96	8.926		
11,100.00	7,174.11	10,873.35	7,048.43	65.38	64.66	83.58	-200.77	-3,274.15	1,123.36	994.20	129.15	8.698		
11,200.00	7,174.29	10,973.35	7,048.45	66.97	66.28	83.56	-200.50	-3,374.15	1,122.49	990.13	132.36	8.481		
11,300.00	7,174.47	11,073.34	7,048.46	68.57	67.90	83.55	-200.23	-3,474.15	1,121.62	986.06	135.57	8.274		
11,400.00	7,174.65	11,173.34	7,048.47	70.17	69.52	83.53	-199.96	-3,574.14	1,120.76	981.98	138.78	8.076		
11,500.00	7,174.83	11,273.33	7,048.49	71.77	71.14	83.52	-199.70	-3,674.14	1,119.89	977.89	142.00	7.887		
11,600.00	7,175.01	11,373.33	7,048.50	73.38	72.77	83.51	-199.43	-3,774.13	1,119.03	973.80	145.23	7.705		
11,700.00	7,175.19	11,473.33	7,048.51	74.99	74.40	83.49	-199.16	-3,874.13	1,118.16	969.71	148.45	7.532		
11,800.00	7,175.36	11,573.32	7,048.52	76.60	76.03	83.48	-198.89	-3,974.12	1,117.30	965.61	151.69	7.366		
11,900.00	7,175.54	11,673.32	7,048.54	78.22	77.66	83.47	-198.62	-4,074.12	1,116.43	961.51	154.93	7.206		
12,000.00	7,175.72	11,773.31	7,048.55	79.83	79.29	83.45	-198.35	-4,174.11	1,115.57	957.40	158.17	7.053		
12,100.00	7,175.90	11,873.31	7,048.56	81.45	80.93	83.44	-198.09	-4,274.11	1,114.70	953.29	161.41	6.906		
12,200.00	7,176.08	11,973.31	7,048.58	83.08	82.56	83.43	-197.82	-4,374.11	1,113.84	949.18	164.66	6.764		
12,300.00	7,176.26	12,073.30	7,048.59	84.70	84.20	83.41	-197.55	-4,474.10	1,112.97	945.06	167.91	6.628		
12,400.00	7,176.44	12,173.30	7,048.60	86.32	85.84	83.40	-197.28	-4,574.10	1,112.11	940.94	171.16	6.497		
12,500.00	7,176.62	12,273.29	7,048.61	87.95	87.48	83.38	-197.01	-4,674.09	1,111.24	936.82	174.42	6.371		
12,600.00	7,176.80	12,373.29	7,048.63	89.58	89.12	83.37	-196.74	-4,774.09	1,110.38	932.70	177.68	6.249		
12,700.00	7,176.98	12,473.28	7,048.64	91.21	90.76	83.36	-196.47	-4,874.08	1,109.51	928.57	180.94	6.132		
12,800.00	7,177.16	12,573.28	7,048.65	92.84	92.41	83.34	-196.21	-4,974.08	1,108.65	924.44	184.21	6.019		
12,900.00	7,177.34	12,673.28	7,048.67	94.47	94.05	83.33	-195.94	-5,074.07	1,107.78	920.31	187.47	5.909		
13,000.00	7,177.52	12,773.27	7,048.68	96.11	95.70	83.31	-195.67	-5,174.07	1,106.92	916.18	190.74	5.803		
13,100.00	7,177.70	12,873.27	7,048.69	97.74	97.34	83.30	-195.40	-5,274.07	1,106.05	912.05	194.01	5.701		
13,200.00	7,177.88	12,973.26	7,048.70	99.38	98.99	83.29	-195.13	-5,374.06	1,105.19	907.91	197.28	5.602		
13,300.00	7,178.06	13,073.26	7,048.72	101.02	100.64	83.27	-194.86	-5,474.06	1,104.32	903.77	200.55	5.506		
13,400.00	7,178.24	13,173.26	7,048.73	102.66	102.29	83.26	-194.59	-5,574.05	1,103.46	899.63	203.83	5.414		
13,500.00	7,178.42	13,273.25	7,048.74	104.30	103.94	83.24	-194.33	-5,674.05	1,102.60	895.49	207.10	5.324		
13,600.00	7,178.60	13,373.25	7,048.76	105.94	105.59	83.23	-194.06	-5,774.04	1,101.73	891.35	210.38	5.237		
13,700.00	7,178.78	13,473.24	7,048.77	107.58	107.24	83.22	-193.79	-5,874.04	1,100.87	887.21	213.66	5.152		
13,800.00	7,178.96	13,573.24	7,048.78	109.23	108.89	83.20	-193.52	-5,974.03	1,100.00	883.06	216.94	5.071		
13,900.00	7,179.14	13,673.24	7,048.79	110.87	110.54	83.19	-193.25	-6,074.03	1,099.14	878.92	220.22	4.991		
14,000.00	7,179.32	13,773.23	7,048.81	112.51	112.20	83.17	-192.98	-6,174.03	1,098.28	874.77	223.51	4.914		
14,100.00	7,179.50	13,873.23	7,048.82	114.16	113.85	83.16	-192.72	-6,274.02	1,097.41	870.62	226.79	4.839		
14,200.00	7,179.68	13,973.22	7,048.83	115.81	115.50	83.15	-192.45	-6,374.02	1,096.55	866.47	230.07	4.766		
14,300.00	7,179.86	14,073.22	7,048.85	117.45	117.16	83.13	-192.18	-6,474.01	1,095.69	862.32	233.36	4.695		
14,400.00	7,180.04	14,173.22	7,048.86	119.10	118.81	83.12	-191.91	-6,574.01	1,094.82	858.17	236.65	4.626		
14,500.00	7,180.22	14,273.21	7,048.87	120.75	120.47	83.10	-191.64	-6,674.00	1,093.96	854.02	239.94	4.559		
14,600.00	7,180.40	14,373.21	7,048.88	122.40	122.12	83.09	-191.37	-6,774.00	1,093.09	849.87	243.22	4.494		
14,700.00	7,180.58	14,473.20	7,048.90	124.05	123.78	83.07	-191.10	-6,873.99	1,092.23	845.72	246.51	4.431		
14,800.00	7,180.76	14,573.20	7,048.91	125.70	125.44	83.06	-190.84	-6,973.99	1,091.37	841.56	249.80	4.369		
14,900.00	7,180.94	14,673.19	7,048.92	127.35	127.09	83.05	-190.57	-7,073.99	1,090.50	837.41	253.10	4.309		
15,000.00	7,181.11	14,773.19	7,048.94	129.00	128.75	83.03	-190.30	-7,173.98	1,089.64	833.25	256.39	4.250		
15,100.00	7,181.29	14,873.19	7,048.95	130.65	130.41	83.02	-190.03	-7,273.98	1,088.78	829.10	259.68	4.193		
15,200.00	7,181.47	14,973.18	7,048.96	132.31	132.07	83.00	-189.76	-7,373.97	1,087.92	824.94	262.97	4.137		
15,300.00	7,181.65	15,073.18	7,048.97	133.96	133.73	82.99	-189.49	-7,473.97	1,087.05	820.79	266.27	4.083		
15,400.00	7,181.83	15,173.17	7,048.99	135.61	135.38	82.97	-189.22	-7,573.96	1,086.19	816.63	269.56	4.029		
15,492.61	7,182.00	15,265.78	7,049.00	137.14	136.92	82.96	-188.98	-7,666.57	1,085.39	812.78	272.61	3.981 SF		

## Hewlett-Packard

### Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30B-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-0.34	139.89	-0.84	139.90					
100.00	100.00	100.00	100.00	3.28	3.28	-0.34	139.89	-0.84	139.90	132.37	7.53	18.581		
200.00	200.00	200.00	200.00	3.31	3.31	-0.34	139.89	-0.84	139.90	132.32	7.57	18.471	CC, ES	
300.00	299.98	300.22	300.20	3.35	3.35	-146.46	139.82	0.92	141.27	133.62	7.66	18.451	SF	
400.00	399.84	400.28	400.12	3.41	3.41	-145.48	139.59	6.16	145.42	137.64	7.78	18.693		
500.00	499.45	500.05	499.50	3.49	3.50	-143.98	139.21	14.85	152.41	144.46	7.95	19.163		
600.00	598.70	600.57	598.17	3.61	3.62	-142.18	138.69	26.68	162.32	154.13	8.19	19.830		
700.00	697.47	701.43	696.52	3.76	3.77	-141.05	138.15	39.13	175.07	166.60	8.47	20.659		
800.00	795.62	802.64	794.53	3.96	3.94	-140.69	137.61	51.53	190.54	181.72	8.82	21.605		
900.00	893.16	904.25	892.15	4.20	4.13	-140.98	137.07	63.89	208.31	199.10	9.22	22.603		
1,000.00	990.62	1,005.91	989.70	4.49	4.34	-141.38	136.53	76.24	226.40	216.76	9.65	23.470		
1,100.00	1,088.07	1,107.57	1,087.26	4.80	4.57	-141.72	135.99	88.58	244.50	234.39	10.11	24.177		
1,200.00	1,185.52	1,209.23	1,184.82	5.13	4.81	-142.01	135.45	100.93	262.61	252.00	10.61	24.752		
1,300.00	1,282.97	1,289.11	1,282.38	5.48	5.01	-142.26	134.91	113.28	280.72	269.65	11.08	25.342		
1,400.00	1,380.43	1,387.45	1,379.94	5.85	5.26	-142.49	134.37	125.63	298.84	287.23	11.61	25.737		
1,500.00	1,477.88	1,485.79	1,477.50	6.23	5.52	-142.69	133.83	137.97	316.96	304.80	12.16	26.057		
1,600.00	1,575.33	1,584.13	1,575.06	6.62	5.79	-142.86	133.29	150.32	335.09	322.35	12.73	26.318		
1,700.00	1,672.79	1,682.46	1,672.62	7.02	6.07	-143.02	132.75	162.67	353.21	339.90	13.31	26.528		
1,800.00	1,770.24	1,780.80	1,770.18	7.42	6.35	-143.17	132.22	175.02	371.34	357.44	13.91	26.699		
1,900.00	1,867.69	1,879.14	1,867.73	7.65	6.52	-143.30	131.68	187.36	389.48	375.60	13.88	28.058		
2,000.00	1,965.14	1,977.48	1,965.29	7.70	6.58	-143.41	131.14	199.71	407.61	393.65	13.97	29.186		
2,100.00	2,062.60	2,075.82	2,062.85	7.78	6.62	-143.52	130.60	212.06	425.75	411.69	14.05	30.296		
2,200.00	2,160.05	2,174.16	2,160.41	7.87	6.67	-143.62	130.06	224.41	443.88	429.71	14.17	31.323		
2,300.00	2,257.50	2,272.50	2,257.97	7.98	6.73	-143.71	129.52	236.75	462.02	447.70	14.32	32.265		
2,400.00	2,354.95	2,370.83	2,355.53	8.11	6.81	-143.80	128.98	249.10	480.16	465.66	14.50	33.121		
2,500.00	2,452.41	2,469.17	2,453.09	8.25	6.91	-143.88	128.44	261.45	498.30	483.60	14.70	33.892		
2,600.00	2,549.86	2,567.51	2,550.65	8.41	7.01	-143.95	127.90	273.80	516.44	501.51	14.93	34.580		
2,700.00	2,647.31	2,665.85	2,648.21	8.59	7.13	-144.02	127.36	286.14	534.58	519.39	15.19	35.187		
2,800.00	2,744.76	2,764.19	2,745.77	8.78	7.25	-144.08	126.82	298.49	552.73	537.25	15.47	35.718		
2,900.00	2,842.22	2,862.53	2,843.32	8.98	7.39	-144.14	126.29	310.84	570.87	555.09	15.78	36.178		
3,000.00	2,939.67	2,960.87	2,940.88	9.20	7.54	-144.20	125.75	323.18	589.01	572.91	16.11	36.572		
3,100.00	3,037.12	3,059.21	3,038.44	9.43	7.70	-144.25	125.21	335.53	607.16	590.70	16.45	36.905		
3,200.00	3,134.58	3,157.54	3,136.00	9.66	7.86	-144.30	124.67	347.88	625.30	608.48	16.82	37.182		
3,300.00	3,232.03	3,255.88	3,233.56	9.91	8.04	-144.35	124.13	360.23	643.45	626.25	17.20	37.410		
3,400.00	3,329.48	3,354.22	3,331.12	10.17	8.22	-144.39	123.59	372.57	661.59	643.99	17.60	37.592		
3,500.00	3,426.93	3,452.56	3,428.68	10.43	8.41	-144.43	123.05	384.92	679.74	661.72	18.01	37.735		
3,600.00	3,524.39	3,550.90	3,526.24	10.71	8.61	-144.47	122.51	397.27	697.88	679.44	18.44	37.842		
3,700.00	3,621.84	3,649.24	3,623.80	10.99	8.81	-144.51	121.97	409.62	716.03	697.15	18.88	37.917		
3,800.00	3,719.29	3,747.58	3,721.36	11.27	9.02	-144.55	121.43	421.96	734.18	714.84	19.34	37.965		
3,900.00	3,816.74	3,845.92	3,818.91	11.57	9.23	-144.58	120.89	434.31	752.32	732.52	19.80	37.989		
4,000.00	3,914.20	3,944.25	3,916.47	11.87	9.45	-144.61	120.36	446.66	770.47	750.19	20.28	37.992		
4,100.00	4,011.65	4,042.59	4,014.03	12.17	9.67	-144.64	119.82	459.01	788.62	767.85	20.77	37.977		
4,200.00	4,109.10	4,140.93	4,111.59	12.48	9.90	-144.67	119.28	471.35	806.76	785.50	21.26	37.946		
4,300.00	4,206.56	4,239.27	4,209.15	12.79	10.13	-144.70	118.74	483.70	824.91	803.15	21.76	37.901		
4,400.00	4,304.01	4,337.61	4,306.71	13.11	10.37	-144.73	118.20	496.05	843.06	820.78	22.28	37.846		
4,500.00	4,401.46	4,435.95	4,404.27	13.43	10.61	-144.76	117.66	508.40	861.21	838.41	22.80	37.780		
4,600.00	4,498.91	4,534.29	4,501.83	13.76	10.85	-144.78	117.12	520.74	879.36	856.04	23.32	37.706		
4,700.00	4,596.37	4,632.63	4,599.39	14.09	11.10	-144.80	116.58	533.09	897.51	873.65	23.85	37.626		
4,800.00	4,693.82	4,730.96	4,696.95	14.42	11.35	-144.83	116.04	545.44	915.65	891.26	24.39	37.539		
4,900.00	4,791.27	4,829.30	4,794.50	14.75	11.60	-144.85	115.50	557.79	933.80	908.87	24.94	37.448		
5,000.00	4,888.72	4,927.64	4,892.06	15.09	11.85	-144.87	114.96	570.13	951.95	926.47	25.49	37.353		
5,100.00	4,986.18	5,025.98	4,989.62	15.43	12.11	-144.89	114.43	582.48	970.10	944.06	26.04	37.256		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.00 usft
5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30B-M - Wellbore #1 - Design #1												<b>Offset Well Error:</b>	3.28 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,083.63	5,124.32	5,087.18	15.78	12.37	-144.91	113.89	594.83	988.25	961.65	26.60	37.155	
5,300.00	5,181.08	5,222.66	5,184.74	16.12	12.63	-144.93	113.35	607.18	1,006.40	979.24	27.16	37.053	
5,400.00	5,278.53	5,321.00	5,282.30	16.47	12.90	-144.95	112.81	619.52	1,024.55	996.82	27.73	36.950	
5,500.00	5,375.99	5,419.33	5,379.86	16.82	13.16	-144.96	112.27	631.87	1,042.70	1,014.40	28.30	36.846	
5,600.00	5,473.44	5,517.67	5,477.42	17.17	13.43	-144.98	111.73	644.22	1,060.85	1,031.97	28.87	36.742	
5,700.00	5,570.89	5,616.01	5,574.98	17.52	13.70	-145.00	111.19	656.56	1,079.00	1,049.55	29.45	36.637	
5,800.00	5,668.35	5,714.35	5,672.53	17.88	13.97	-145.01	110.65	668.91	1,097.15	1,067.11	30.03	36.533	
5,900.00	5,765.80	5,812.69	5,770.09	18.23	14.24	-145.03	110.11	681.26	1,115.30	1,084.68	30.62	36.429	
6,000.00	5,863.25	5,911.03	5,867.65	18.59	14.51	-145.04	109.57	693.61	1,133.45	1,102.24	31.20	36.325	
6,100.00	5,960.70	6,009.37	5,965.21	18.95	14.79	-145.06	109.03	705.95	1,151.60	1,119.80	31.79	36.223	
6,200.00	6,058.16	6,107.71	6,062.77	19.31	15.06	-145.07	108.50	718.30	1,169.75	1,137.36	32.38	36.121	
6,300.00	6,155.61	6,206.04	6,160.33	19.67	15.34	-145.09	107.96	730.65	1,187.90	1,154.92	32.98	36.020	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30C-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	-0.30	159.92	-0.84	159.92				
100.00	100.00	100.00	100.00	3.28	3.28	-0.30	159.92	-0.84	159.92	152.39	7.53	21.241	
200.00	200.00	200.00	200.00	3.31	3.31	-0.30	159.92	-0.84	159.92	152.35	7.57	21.115 CC, ES, SF	
300.00	299.98	298.98	298.96	3.35	3.35	-146.47	160.24	0.84	161.69	154.04	7.66	21.118	
400.00	399.84	397.73	397.58	3.41	3.41	-145.66	161.18	5.87	167.02	159.24	7.78	21.466	
500.00	499.45	496.06	495.54	3.49	3.50	-144.43	162.73	14.19	175.94	167.99	7.95	22.117	
600.00	598.70	605.75	593.03	3.61	3.63	-142.93	164.87	25.61	188.47	180.27	8.20	22.987	
700.00	697.47	707.00	690.99	3.76	3.78	-141.95	167.16	37.84	204.00	195.51	8.49	24.028	
800.00	795.62	808.69	788.52	3.96	3.95	-141.62	169.44	50.02	222.26	213.43	8.84	25.155	
900.00	893.16	889.16	885.58	4.20	4.10	-141.85	171.71	62.14	242.85	233.66	9.19	26.425	
1,000.00	990.62	986.93	982.58	4.49	4.30	-142.21	173.97	74.25	263.76	254.15	9.61	27.456	
1,100.00	1,088.07	1,084.71	1,079.58	4.80	4.52	-142.52	176.24	86.37	284.67	274.61	10.06	28.305	
1,200.00	1,185.52	1,182.49	1,176.58	5.13	4.75	-142.79	178.51	98.48	305.59	295.06	10.54	29.000	
1,300.00	1,282.97	1,280.27	1,273.58	5.48	4.99	-143.02	180.77	110.59	326.52	315.48	11.04	29.567	
1,400.00	1,380.43	1,378.04	1,370.58	5.85	5.24	-143.22	183.04	122.70	347.45	335.88	11.57	30.028	
1,500.00	1,477.88	1,475.82	1,467.57	6.23	5.49	-143.40	185.31	134.82	368.39	356.27	12.12	30.402	
1,600.00	1,575.33	1,573.60	1,564.57	6.62	5.76	-143.56	187.57	146.93	389.33	376.65	12.68	30.706	
1,700.00	1,672.79	1,671.38	1,661.57	7.02	6.03	-143.71	189.84	159.04	410.27	397.01	13.25	30.952	
1,800.00	1,770.24	1,769.16	1,758.57	7.42	6.30	-143.84	192.11	171.15	431.21	417.37	13.84	31.151	
1,900.00	1,867.69	1,866.93	1,855.57	7.85	6.49	-143.95	194.37	183.26	452.16	438.33	13.83	32.696	
2,000.00	1,965.14	1,964.71	1,952.56	7.70	6.56	-144.06	196.64	195.38	473.10	459.17	13.93	33.966	
2,100.00	2,062.60	2,062.49	2,049.56	7.78	6.60	-144.16	198.91	207.49	494.05	480.04	14.01	35.255	
2,200.00	2,160.05	2,160.27	2,146.56	7.87	6.65	-144.25	201.18	219.60	515.00	500.87	14.13	36.449	
2,300.00	2,257.50	2,258.04	2,243.56	7.98	6.71	-144.34	203.44	231.71	535.95	521.68	14.27	37.545	
2,400.00	2,354.95	2,355.82	2,340.56	8.11	6.79	-144.41	205.71	243.83	556.91	542.46	14.45	38.542	
2,500.00	2,452.41	2,453.60	2,437.56	8.25	6.88	-144.48	207.98	255.94	577.86	563.21	14.65	39.440	
2,600.00	2,549.86	2,551.38	2,534.55	8.41	6.98	-144.55	210.24	268.05	598.81	583.93	14.88	40.242	
2,700.00	2,647.31	2,649.16	2,631.55	8.59	7.09	-144.61	212.51	280.16	619.77	604.63	15.13	40.950	
2,800.00	2,744.76	2,746.93	2,728.55	8.78	7.22	-144.67	214.78	292.27	640.72	625.31	15.41	41.571	
2,900.00	2,842.22	2,844.71	2,825.55	8.98	7.35	-144.73	217.04	304.39	661.68	645.96	15.71	42.108	
3,000.00	2,939.67	2,942.49	2,922.55	9.20	7.49	-144.78	219.31	316.50	682.63	666.60	16.04	42.569	
3,100.00	3,037.12	3,040.27	3,019.54	9.43	7.65	-144.82	221.58	328.61	703.59	687.21	16.38	42.958	
3,200.00	3,134.58	3,138.04	3,116.54	9.66	7.81	-144.87	223.84	340.72	724.55	707.81	16.74	43.283	
3,300.00	3,232.03	3,235.82	3,213.54	9.91	7.98	-144.91	226.11	352.84	745.50	728.39	17.12	43.550	
3,400.00	3,329.48	3,333.60	3,310.54	10.17	8.16	-144.95	228.38	364.95	766.46	748.95	17.51	43.765	
3,500.00	3,426.93	3,431.38	3,407.54	10.43	8.34	-144.99	230.64	377.06	787.42	769.50	17.92	43.932	
3,600.00	3,524.39	3,529.16	3,504.54	10.71	8.53	-145.03	232.91	389.17	808.38	790.03	18.35	44.058	
3,700.00	3,621.84	3,626.93	3,601.53	10.99	8.73	-145.06	235.18	401.28	829.34	810.55	18.79	44.147	
3,800.00	3,719.29	3,724.71	3,698.53	11.27	8.94	-145.09	237.44	413.40	850.30	831.06	19.24	44.204	
3,900.00	3,816.74	3,822.49	3,795.53	11.57	9.15	-145.13	239.71	425.51	871.26	851.56	19.70	44.232	
4,000.00	3,914.20	3,920.27	3,892.53	11.87	9.36	-145.16	241.98	437.62	892.22	872.05	20.17	44.236	
4,100.00	4,011.65	4,018.04	3,989.53	12.17	9.58	-145.18	244.24	449.73	913.18	892.52	20.65	44.219	
4,200.00	4,109.10	4,115.82	4,086.52	12.48	9.80	-145.21	246.51	461.85	934.14	912.99	21.14	44.183	
4,300.00	4,206.56	4,213.60	4,183.52	12.79	10.03	-145.24	248.78	473.96	955.10	933.45	21.64	44.132	
4,400.00	4,304.01	4,311.38	4,280.52	13.11	10.26	-145.26	251.04	486.07	976.06	953.91	22.15	44.067	
4,500.00	4,401.46	4,409.16	4,377.52	13.43	10.50	-145.29	253.31	498.18	997.02	974.35	22.66	43.990	
4,600.00	4,498.91	4,506.93	4,474.52	13.76	10.74	-145.31	255.58	510.30	1,017.98	994.79	23.19	43.904	
4,700.00	4,596.37	4,604.71	4,571.52	14.09	10.98	-145.33	257.84	522.41	1,038.94	1,015.22	23.72	43.809	
4,800.00	4,693.82	4,702.49	4,668.51	14.42	11.23	-145.35	260.11	534.52	1,059.90	1,035.65	24.25	43.708	
4,900.00	4,791.27	4,800.27	4,765.51	14.75	11.47	-145.37	262.38	546.63	1,080.86	1,056.07	24.79	43.602	
5,000.00	4,888.72	4,901.96	4,862.51	15.09	11.73	-145.39	264.64	558.74	1,101.82	1,076.48	25.34	43.473	
5,100.00	4,986.18	5,004.18	4,959.51	15.43	12.00	-145.41	266.91	570.86	1,122.78	1,096.88	25.91	43.339	



Hewlett-Packard  
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 5N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RIB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RIB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 5N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design	5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30C-M - Wellbore #1 - Design #1											Offset Site Error:	0.00 usft
Survey Program:	0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,083.63	5,106.40	5,056.51	15.78	12.27	-145.43	269.18	582.97	1,143.75	1,117.27	26.47	43.203	
5,300.00	5,181.08	5,208.62	5,153.50	16.12	12.54	-145.44	271.44	595.08	1,164.71	1,137.66	27.05	43.065	
5,400.00	5,278.53	5,289.16	5,250.50	16.47	12.75	-145.46	273.71	607.19	1,185.67	1,158.11	27.56	43.017	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5C-30-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	0.00	20.03	0.00	20.03					
100.00	100.00	100.00	100.00	3.28	3.28	0.00	20.03	0.00	20.03	12.50	7.53	2.661		
200.00	200.00	200.00	200.00	3.31	3.31	0.00	20.03	0.00	20.03	12.46	7.57	2.645 CC		
300.00	299.98	300.57	300.55	3.35	3.35	-146.25	18.61	1.04	20.07	12.42	7.65	2.623 ES		
400.00	399.84	401.13	400.97	3.41	3.41	-145.65	14.33	4.16	20.18	12.42	7.76	2.600		
500.00	499.45	501.70	501.14	3.49	3.49	-144.68	7.21	9.35	20.37	12.45	7.91	2.574		
600.00	598.70	602.26	600.94	3.61	3.61	-143.34	-2.75	16.61	20.64	12.53	8.12	2.544		
700.00	697.47	702.82	700.24	3.76	3.77	-141.67	-15.53	25.93	21.01	12.64	8.37	2.509		
800.00	795.62	803.30	798.85	3.96	3.97	-139.78	-31.08	37.27	21.51	12.80	8.70	2.471		
900.00	893.16	903.28	896.72	4.20	4.21	-140.67	-47.60	49.32	23.35	14.25	9.10	2.565		
1,000.00	990.62	1,003.25	994.58	4.49	4.48	-142.00	-64.12	61.36	25.51	15.97	9.54	2.675		
1,100.00	1,088.07	1,103.23	1,092.45	4.80	4.77	-143.12	-80.64	73.41	27.69	17.68	10.01	2.765		
1,200.00	1,185.52	1,203.20	1,190.31	5.13	5.08	-144.08	-97.16	85.46	29.88	19.36	10.52	2.841		
1,300.00	1,282.97	1,303.18	1,288.17	5.48	5.41	-144.90	-113.68	97.50	32.07	21.02	11.05	2.903		
1,400.00	1,380.43	1,403.15	1,386.03	5.85	5.76	-145.62	-130.20	109.55	34.27	22.67	11.60	2.955		
1,500.00	1,477.88	1,503.13	1,483.90	6.23	6.12	-146.26	-146.71	121.59	36.47	24.31	12.16	2.998		
1,600.00	1,575.33	1,603.10	1,581.76	6.62	6.48	-146.82	-163.23	133.64	38.68	25.93	12.75	3.034		
1,700.00	1,672.79	1,703.08	1,679.62	7.02	6.86	-147.32	-179.75	145.69	40.89	27.54	13.34	3.064		
1,800.00	1,770.24	1,803.05	1,777.48	7.42	7.23	-147.77	-196.27	157.73	43.10	29.15	13.95	3.091		
1,900.00	1,867.69	1,903.03	1,875.34	7.65	7.44	-148.17	-212.79	169.78	45.32	31.44	13.88	3.266		
2,000.00	1,965.14	2,003.00	1,973.21	7.70	7.49	-148.54	-229.31	181.82	47.53	33.61	13.92	3.415		
2,100.00	2,062.60	2,102.98	2,071.07	7.78	7.55	-148.88	-245.83	193.87	49.75	35.75	14.00	3.554		
2,200.00	2,160.05	2,202.95	2,168.93	7.87	7.64	-149.18	-262.35	205.91	51.97	37.86	14.11	3.683		
2,300.00	2,257.50	2,302.93	2,266.79	7.98	7.74	-149.46	-278.87	217.96	54.20	39.94	14.26	3.801		
2,400.00	2,354.95	2,402.90	2,364.66	8.11	7.86	-149.72	-295.39	230.01	56.42	41.98	14.44	3.908		
2,500.00	2,452.41	2,502.88	2,462.52	8.25	8.00	-149.96	-311.90	242.05	58.64	44.00	14.65	4.004		
2,600.00	2,549.86	2,602.85	2,560.38	8.41	8.15	-150.18	-328.42	254.10	60.87	45.98	14.89	4.089		
2,700.00	2,647.31	2,702.83	2,658.24	8.59	8.31	-150.39	-344.94	266.14	63.10	47.94	15.15	4.164		
2,800.00	2,744.76	2,802.80	2,756.10	8.78	8.49	-150.58	-361.46	278.19	65.32	49.88	15.45	4.229		
2,900.00	2,842.22	2,902.78	2,853.97	8.98	8.68	-150.76	-377.98	290.24	67.55	51.78	15.77	4.284		
3,000.00	2,939.67	3,002.75	2,951.83	9.20	8.88	-150.93	-394.50	302.28	69.78	53.67	16.11	4.332		
3,100.00	3,037.12	3,102.73	3,049.69	9.43	9.10	-151.09	-411.02	314.33	72.01	55.54	16.47	4.371		
3,200.00	3,134.58	3,202.70	3,147.55	9.66	9.32	-151.23	-427.54	326.37	74.24	57.38	16.86	4.404		
3,300.00	3,232.03	3,302.68	3,245.42	9.91	9.56	-151.37	-444.06	338.42	76.47	59.21	17.26	4.430		
3,400.00	3,329.48	3,402.65	3,343.28	10.17	9.80	-151.51	-460.57	350.46	78.70	61.02	17.68	4.451		
3,500.00	3,426.93	3,502.63	3,441.14	10.43	10.05	-151.63	-477.09	362.51	80.93	62.81	18.12	4.467		
3,600.00	3,524.39	3,602.60	3,539.00	10.71	10.31	-151.75	-493.61	374.56	83.16	64.59	18.57	4.478		
3,700.00	3,621.84	3,702.58	3,636.86	10.99	10.57	-151.86	-510.13	386.60	85.39	66.36	19.04	4.486		
3,800.00	3,719.29	3,802.55	3,734.73	11.27	10.84	-151.97	-526.65	398.65	87.62	68.11	19.51	4.490		
3,900.00	3,816.74	3,902.53	3,832.59	11.57	11.12	-152.07	-543.17	410.69	89.86	69.85	20.00	4.492		
4,000.00	3,914.20	4,002.50	3,930.45	11.87	11.40	-152.16	-559.69	422.74	92.09	71.58	20.51	4.491		
4,100.00	4,011.65	4,102.48	4,028.31	12.17	11.69	-152.25	-576.21	434.79	94.32	73.30	21.02	4.488		
4,200.00	4,109.10	4,202.45	4,126.18	12.48	11.99	-152.34	-592.73	446.83	96.55	75.01	21.54	4.483		
4,300.00	4,206.56	4,302.43	4,224.04	12.79	12.28	-152.42	-609.24	458.88	98.79	76.72	22.07	4.476		
4,400.00	4,304.01	4,402.40	4,321.90	13.11	12.59	-152.50	-625.76	470.92	101.02	78.41	22.61	4.469		
4,500.00	4,401.46	4,502.38	4,419.76	13.43	12.89	-152.58	-642.28	482.97	103.25	80.10	23.15	4.460		
4,600.00	4,498.91	4,602.35	4,517.63	13.76	13.20	-152.65	-658.80	495.01	105.49	81.78	23.70	4.450		
4,700.00	4,596.37	4,702.33	4,615.49	14.09	13.52	-152.72	-675.32	507.06	107.72	83.46	24.26	4.440		
4,800.00	4,693.82	4,802.30	4,713.35	14.42	13.83	-152.79	-691.84	519.11	109.95	85.13	24.83	4.429		
4,900.00	4,791.27	4,902.28	4,811.21	14.75	14.15	-152.85	-708.36	531.15	112.19	86.79	25.40	4.417		
5,000.00	4,888.72	5,002.25	4,909.07	15.09	14.47	-152.91	-724.88	543.20	114.42	88.45	25.97	4.405		
5,100.00	4,986.18	5,102.23	5,006.94	15.43	14.80	-152.97	-741.40	555.24	116.66	90.10	26.55	4.393		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5C-30-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,083.63	5,202.20	5,104.80	15.78	15.12	-153.03	-757.92	567.29	118.89	91.75	27.14	4.381		
5,300.00	5,181.08	5,302.18	5,202.66	16.12	15.45	-153.08	-774.43	579.33	121.13	93.40	27.73	4.368		
5,400.00	5,278.53	5,402.15	5,300.52	16.47	15.78	-153.14	-790.95	591.38	123.36	95.04	28.32	4.356		
5,500.00	5,375.99	5,502.13	5,398.39	16.82	16.12	-153.19	-807.47	603.43	125.60	96.68	28.92	4.343		
5,600.00	5,473.44	5,602.10	5,496.25	17.17	16.45	-153.24	-823.99	615.47	127.83	98.31	29.52	4.330		
5,700.00	5,570.89	5,702.08	5,594.11	17.52	16.79	-153.29	-840.51	627.52	130.07	99.94	30.12	4.318		
5,800.00	5,668.35	5,802.05	5,691.97	17.88	17.13	-153.33	-857.03	639.56	132.30	101.57	30.73	4.305		
5,900.00	5,765.80	5,902.03	5,789.83	18.23	17.46	-153.38	-873.55	651.61	134.54	103.19	31.34	4.293		
6,000.00	5,863.25	6,002.00	5,887.70	18.59	17.81	-153.42	-890.07	663.66	136.77	104.82	31.95	4.280		
6,100.00	5,960.70	6,101.98	5,985.56	18.95	18.15	-153.46	-906.59	675.70	139.01	106.44	32.57	4.268		
6,200.00	6,058.16	6,201.95	6,083.42	19.31	18.49	-153.50	-923.10	687.75	141.24	108.05	33.19	4.256		
6,300.00	6,155.61	6,301.93	6,181.28	19.67	18.84	-153.54	-939.62	699.79	143.48	109.67	33.81	4.244		
6,400.00	6,253.06	6,401.90	6,279.15	20.03	19.18	-153.58	-956.14	711.84	145.71	111.28	34.43	4.232		
6,500.00	6,350.51	6,501.88	6,377.01	20.40	19.53	-153.61	-972.66	723.88	147.95	112.89	35.05	4.221		
6,600.00	6,447.97	6,601.85	6,474.87	20.76	19.88	-153.65	-989.18	735.93	150.18	114.50	35.68	4.209		
6,700.00	6,545.82	6,701.63	6,572.54	21.04	20.23	174.57	-1,005.67	747.95	151.98	115.55	36.43	4.171		
6,800.00	6,643.56	6,799.60	6,668.45	21.24	20.56	143.27	-1,021.86	759.66	154.08	116.37	37.70	4.087		
6,900.00	6,738.83	6,899.26	6,766.59	21.40	20.78	133.50	-1,038.41	762.14	159.99	120.90	39.09	4.093		
7,000.00	6,829.27	7,003.38	6,868.21	21.50	20.96	132.63	-1,055.53	748.13	169.76	129.68	40.08	4.236		
7,100.00	6,912.66	7,112.45	6,970.76	21.56	21.09	134.58	-1,072.79	715.67	182.26	141.84	40.41	4.510		
7,200.00	6,986.95	7,226.86	7,070.81	21.59	21.17	137.15	-1,089.60	663.11	196.10	156.07	40.03	4.898		
7,300.00	7,050.31	7,346.77	7,163.94	21.58	21.20	139.53	-1,105.23	589.50	209.89	170.77	39.12	5.365		
7,400.00	7,101.17	7,471.99	7,244.88	21.54	21.18	141.39	-1,118.77	495.19	222.30	184.27	38.03	5.846		
7,500.00	7,138.29	7,601.85	7,307.96	21.46	21.11	142.62	-1,129.28	382.43	232.20	194.95	37.25	6.233		
7,600.00	7,160.75	7,735.15	7,347.90	21.37	20.99	143.19	-1,135.87	255.68	238.74	201.45	37.29	6.403		
7,700.00	7,168.01	7,869.01	7,361.00	21.26	20.85	143.09	-1,137.92	122.72	241.37	203.00	38.37	6.290		
7,800.00	7,168.19	7,969.00	7,360.97	21.16	20.73	142.80	-1,137.80	22.73	242.04	202.44	39.60	6.112		
7,900.00	7,168.37	8,068.99	7,360.95	21.19	20.99	142.51	-1,137.68	-77.26	242.72	201.77	40.95	5.927		
8,000.00	7,168.55	8,168.98	7,360.92	21.90	21.81	142.22	-1,137.56	-177.25	243.41	201.00	42.40	5.740		
8,100.00	7,168.73	8,268.97	7,360.89	22.80	22.72	141.93	-1,137.44	-277.24	244.09	200.13	43.96	5.553		
8,200.00	7,168.91	8,368.96	7,360.87	23.78	23.70	141.65	-1,137.32	-377.23	244.79	199.18	45.61	5.367		
8,300.00	7,169.09	8,468.95	7,360.84	24.84	24.75	141.37	-1,137.20	-477.22	245.49	198.15	47.35	5.185		
8,400.00	7,169.27	8,568.94	7,360.82	25.95	25.86	141.08	-1,137.08	-577.21	246.20	197.04	49.16	5.008		
8,500.00	7,169.45	8,668.93	7,360.79	27.12	27.03	140.80	-1,136.96	-677.20	246.91	195.87	51.05	4.837		
8,600.00	7,169.62	8,768.92	7,360.77	28.33	28.24	140.53	-1,136.84	-777.19	247.63	194.63	53.00	4.672		
8,700.00	7,169.80	8,868.91	7,360.74	29.59	29.50	140.25	-1,136.72	-877.18	248.36	193.34	55.01	4.514		
8,800.00	7,169.98	8,968.90	7,360.72	30.88	30.79	139.97	-1,136.60	-977.17	249.09	192.00	57.08	4.363		
8,900.00	7,170.16	9,068.89	7,360.69	32.21	32.12	139.70	-1,136.48	-1,077.16	249.82	190.62	59.21	4.219		
9,000.00	7,170.34	9,168.88	7,360.66	33.56	33.47	139.43	-1,136.36	-1,177.15	250.57	189.19	61.38	4.082		
9,100.00	7,170.52	9,268.87	7,360.64	34.94	34.85	139.16	-1,136.24	-1,277.14	251.31	187.72	63.60	3.952		
9,200.00	7,170.70	9,368.86	7,360.61	36.35	36.26	138.89	-1,136.12	-1,377.13	252.07	186.21	65.86	3.828		
9,300.00	7,170.88	9,468.85	7,360.59	37.77	37.68	138.62	-1,136.00	-1,477.12	252.83	184.67	68.15	3.710		
9,400.00	7,171.06	9,564.92	7,360.56	39.22	39.07	138.24	-1,135.12	-1,573.18	254.13	183.82	70.31	3.614		
9,500.00	7,171.24	9,659.13	7,360.54	40.68	40.44	137.37	-1,131.27	-1,667.30	257.58	184.98	72.60	3.548		
9,600.00	7,171.42	9,752.90	7,360.52	42.15	41.81	136.05	-1,124.37	-1,760.82	263.35	188.27	75.08	3.507		
9,700.00	7,171.60	9,851.54	7,360.49	43.64	43.27	134.41	-1,115.11	-1,859.03	270.73	192.63	78.10	3.466		
9,800.00	7,171.78	9,950.97	7,360.46	45.14	44.75	132.85	-1,105.75	-1,958.02	278.33	197.12	81.21	3.427		
9,900.00	7,171.95	10,050.40	7,360.44	46.65	46.24	131.37	-1,096.38	-2,057.00	286.14	201.79	84.35	3.392		
10,000.00	7,172.13	10,149.83	7,360.41	48.18	47.74	129.97	-1,087.02	-2,155.99	294.12	206.61	87.51	3.361		
10,100.00	7,172.31	10,249.26	7,360.39	49.71	49.25	128.64	-1,077.66	-2,254.98	302.27	211.58	90.69	3.333		
10,200.00	7,172.49	10,348.69	7,360.36	51.25	50.77	127.39	-1,068.30	-2,353.96	310.58	216.68	93.90	3.308		
10,300.00	7,172.67	10,448.11	7,360.34	52.79	52.30	126.20	-1,058.94	-2,452.95	319.02	221.91	97.11	3.285		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5C-30-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,172.85	10,547.54	7,360.31	54.35	53.84	125.07	-1,049.57	-2,551.94	327.60	227.25	100.35	3.265		
10,500.00	7,173.03	10,646.97	7,360.29	55.91	55.38	124.00	-1,040.21	-2,650.92	336.29	232.70	103.59	3.246		
10,600.00	7,173.21	10,746.40	7,360.26	57.48	56.94	122.98	-1,030.85	-2,749.91	345.10	238.25	106.84	3.230		
10,700.00	7,173.39	10,845.83	7,360.24	59.05	58.49	122.01	-1,021.49	-2,848.90	354.01	243.90	110.11	3.215		
10,800.00	7,173.57	10,949.87	7,360.21	60.62	60.13	121.15	-1,011.99	-2,952.50	361.46	247.83	113.62	3.181		
10,900.00	7,173.75	11,061.96	7,360.18	62.20	61.90	120.68	-1,005.23	-3,064.38	365.53	248.08	117.46	3.112		
11,000.00	7,173.93	11,174.31	7,360.15	63.79	63.69	120.56	-1,002.85	-3,176.70	366.25	245.24	121.01	3.027		
11,100.00	7,174.11	11,274.10	7,360.13	65.38	65.28	120.61	-1,002.63	-3,276.48	365.34	241.50	123.84	2.950		
11,200.00	7,174.29	11,374.09	7,360.10	66.97	66.88	120.66	-1,002.41	-3,376.48	364.43	237.75	126.68	2.877		
11,300.00	7,174.47	11,474.09	7,360.08	68.57	68.48	120.70	-1,002.19	-3,476.47	363.52	234.00	129.52	2.807		
11,400.00	7,174.65	11,574.08	7,360.05	70.17	70.09	120.75	-1,001.96	-3,576.47	362.61	230.24	132.37	2.739		
11,500.00	7,174.83	11,674.08	7,360.02	71.77	71.69	120.80	-1,001.74	-3,676.47	361.70	226.48	135.22	2.675		
11,600.00	7,175.01	11,774.07	7,360.00	73.38	73.31	120.85	-1,001.52	-3,776.46	360.79	222.72	138.07	2.613		
11,700.00	7,175.19	11,874.07	7,359.97	74.99	74.92	120.90	-1,001.30	-3,876.46	359.89	218.96	140.93	2.554		
11,800.00	7,175.36	11,974.06	7,359.95	76.60	76.54	120.94	-1,001.08	-3,976.45	358.98	215.19	143.79	2.497		
11,900.00	7,175.54	12,074.06	7,359.92	78.22	78.15	120.99	-1,000.85	-4,076.45	358.07	211.42	146.65	2.442		
12,000.00	7,175.72	12,174.05	7,359.90	79.83	79.77	121.04	-1,000.63	-4,176.44	357.16	207.65	149.51	2.389		
12,100.00	7,175.90	12,274.05	7,359.87	81.45	81.40	121.09	-1,000.41	-4,276.44	356.25	203.88	152.38	2.338		
12,200.00	7,176.08	12,374.05	7,359.84	83.08	83.02	121.14	-1,000.19	-4,376.43	355.34	200.10	155.24	2.289		
12,300.00	7,176.26	12,474.04	7,359.82	84.70	84.65	121.19	-999.96	-4,476.43	354.44	196.33	158.11	2.242		
12,400.00	7,176.44	12,574.04	7,359.79	86.32	86.28	121.24	-999.74	-4,576.42	353.53	192.55	160.98	2.196		
12,500.00	7,176.62	12,674.03	7,359.77	87.95	87.91	121.29	-999.52	-4,676.42	352.62	188.78	163.84	2.152		
12,600.00	7,176.80	12,774.03	7,359.74	89.58	89.54	121.34	-999.30	-4,776.41	351.72	185.00	166.71	2.110		
12,700.00	7,176.98	12,874.02	7,359.72	91.21	91.17	121.39	-999.08	-4,876.41	350.81	181.23	169.58	2.069		
12,800.00	7,177.16	12,974.02	7,359.69	92.84	92.80	121.44	-998.85	-4,976.40	349.90	177.45	172.45	2.029		
12,900.00	7,177.34	13,074.01	7,359.67	94.47	94.44	121.50	-998.63	-5,076.40	349.00	173.68	175.32	1.991		
13,000.00	7,177.52	13,174.01	7,359.64	96.11	96.08	121.55	-998.41	-5,176.39	348.09	169.90	178.19	1.953		
13,100.00	7,177.70	13,274.00	7,359.61	97.74	97.71	121.60	-998.19	-5,276.39	347.19	166.13	181.06	1.918		
13,200.00	7,177.88	13,374.00	7,359.59	99.38	99.35	121.65	-997.96	-5,376.38	346.28	162.36	183.93	1.883		
13,300.00	7,178.06	13,473.99	7,359.56	101.02	100.99	121.70	-997.74	-5,476.38	345.38	158.58	186.80	1.849		
13,400.00	7,178.24	13,573.99	7,359.54	102.66	102.63	121.76	-997.52	-5,576.37	344.47	154.81	189.66	1.816		
13,500.00	7,178.42	13,673.99	7,359.51	104.30	104.28	121.81	-997.30	-5,676.37	343.57	151.04	192.53	1.785		
13,600.00	7,178.60	13,773.98	7,359.49	105.94	105.92	121.86	-997.08	-5,776.36	342.67	147.27	195.39	1.754		
13,700.00	7,178.78	13,873.98	7,359.46	107.58	107.56	121.92	-996.85	-5,876.36	341.76	143.50	198.26	1.724		
13,800.00	7,178.96	13,973.97	7,359.43	109.23	109.21	121.97	-996.63	-5,976.35	340.86	139.74	201.12	1.695		
13,900.00	7,179.14	14,073.97	7,359.41	110.87	110.85	122.02	-996.41	-6,076.35	339.96	135.97	203.99	1.667		
14,000.00	7,179.32	14,173.96	7,359.38	112.51	112.50	122.08	-996.19	-6,176.34	339.05	132.21	206.85	1.639		
14,100.00	7,179.50	14,273.96	7,359.36	114.16	114.15	122.13	-995.96	-6,276.34	338.15	128.45	209.71	1.613		
14,200.00	7,179.68	14,373.95	7,359.33	115.81	115.79	122.19	-995.74	-6,376.33	337.25	124.69	212.56	1.587		
14,300.00	7,179.86	14,473.95	7,359.31	117.45	117.44	122.24	-995.52	-6,476.33	336.35	120.93	215.42	1.561		
14,400.00	7,180.04	14,573.94	7,359.28	119.10	119.09	122.30	-995.30	-6,576.32	335.45	117.17	218.28	1.537		
14,500.00	7,180.22	14,673.94	7,359.25	120.75	120.74	122.36	-995.08	-6,676.32	334.55	113.42	221.13	1.513		
14,600.00	7,180.40	14,773.94	7,359.23	122.40	122.39	122.41	-994.85	-6,776.32	333.65	109.66	223.98	1.490 Level 3		
14,700.00	7,180.58	14,873.93	7,359.20	124.05	124.04	122.47	-994.63	-6,876.31	332.75	105.91	226.83	1.467 Level 3		
14,800.00	7,180.76	14,973.93	7,359.18	125.70	125.69	122.53	-994.41	-6,976.31	331.85	102.17	229.68	1.445 Level 3		
14,900.00	7,180.94	15,073.92	7,359.15	127.35	127.35	122.58	-994.19	-7,076.30	330.95	98.42	232.53	1.423 Level 3		
15,000.00	7,181.11	15,173.92	7,359.13	129.00	129.00	122.64	-993.96	-7,176.30	330.05	94.68	235.37	1.402 Level 3		
15,100.00	7,181.29	15,273.91	7,359.10	130.65	130.65	122.70	-993.74	-7,276.29	329.15	90.94	238.21	1.382 Level 3		
15,200.00	7,181.47	15,373.91	7,359.08	132.31	132.30	122.76	-993.52	-7,376.29	328.25	87.20	241.05	1.362 Level 3		
15,300.00	7,181.65	15,473.90	7,359.05	133.96	133.96	122.81	-993.30	-7,476.28	327.35	83.46	243.89	1.342 Level 3		
15,400.00	7,181.83	15,573.90	7,359.02	135.61	135.61	122.87	-993.08	-7,576.28	326.45	79.73	246.72	1.323 Level 3		
15,492.61	7,182.00	15,666.50	7,359.00	137.14	137.14	122.93	-992.87	-7,668.88	325.62	76.27	249.35	1.306 Level 3, SF		

## Hewlett-Packard

### Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30C-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-0.40	40.07	-0.28	40.07					
100.00	100.00	100.00	100.00	3.28	3.28	-0.40	40.07	-0.28	40.07	32.54	7.53	5.323		
200.00	200.00	200.00	200.00	3.31	3.31	-0.40	40.07	-0.28	40.07	32.50	7.57	5.291	CC, ES	
300.00	299.98	301.03	301.00	3.35	3.35	-146.48	38.79	0.95	40.25	32.60	7.65	5.260		
400.00	399.84	402.04	401.88	3.41	3.41	-145.38	34.93	4.65	40.81	33.04	7.76	5.255		
500.00	499.45	503.05	502.48	3.49	3.50	-143.62	28.51	10.81	41.76	33.84	7.92	5.271		
600.00	598.70	604.03	602.69	3.61	3.61	-141.30	19.54	19.41	43.15	35.02	8.13	5.305		
700.00	697.47	704.98	702.37	3.76	3.77	-138.53	8.03	30.45	45.03	36.62	8.41	5.355		
800.00	795.62	804.99	800.78	3.96	3.97	-136.93	-4.81	42.76	48.34	39.58	8.76	5.517		
900.00	893.16	904.83	899.03	4.20	4.19	-137.78	-17.63	55.05	53.87	44.71	9.17	5.877		
1,000.00	990.62	1,004.66	997.26	4.49	4.44	-138.76	-30.45	67.35	59.72	50.10	9.61	6.213		
1,100.00	1,088.07	1,104.48	1,095.50	4.80	4.71	-139.56	-43.27	79.64	65.57	55.48	10.09	6.497		
1,200.00	1,185.52	1,204.31	1,193.73	5.13	5.00	-140.23	-56.09	91.94	71.44	60.84	10.61	6.736		
1,300.00	1,282.97	1,304.13	1,291.96	5.48	5.30	-140.80	-68.91	104.23	77.32	66.17	11.15	6.937		
1,400.00	1,380.43	1,403.95	1,390.19	5.85	5.62	-141.29	-81.73	116.53	83.20	71.49	11.71	7.107		
1,500.00	1,477.88	1,503.78	1,488.42	6.23	5.95	-141.71	-94.55	128.82	89.09	76.80	12.29	7.250		
1,600.00	1,575.33	1,603.60	1,586.65	6.62	6.28	-142.08	-107.37	141.12	94.98	82.10	12.88	7.372		
1,700.00	1,672.79	1,703.43	1,684.88	7.02	6.62	-142.41	-120.19	153.41	100.88	87.38	13.49	7.476		
1,800.00	1,770.24	1,803.25	1,783.12	7.42	6.97	-142.70	-133.01	165.71	106.78	92.66	14.11	7.565		
1,900.00	1,867.69	1,903.08	1,881.35	7.65	7.15	-142.96	-145.84	178.00	112.68	98.62	14.06	8.016		
2,000.00	1,965.14	2,002.90	1,979.58	7.70	7.19	-143.20	-158.66	190.30	118.58	104.47	14.11	8.404		
2,100.00	2,062.60	2,102.73	2,077.81	7.78	7.25	-143.41	-171.48	202.59	124.49	110.29	14.20	8.767		
2,200.00	2,160.05	2,202.55	2,176.04	7.87	7.33	-143.61	-184.30	214.88	130.39	116.07	14.32	9.105		
2,300.00	2,257.50	2,302.37	2,274.27	7.98	7.42	-143.78	-197.12	227.18	136.30	121.83	14.48	9.416		
2,400.00	2,354.95	2,402.20	2,372.50	8.11	7.53	-143.95	-209.94	239.47	142.21	127.55	14.66	9.700		
2,500.00	2,452.41	2,502.02	2,470.73	8.25	7.65	-144.09	-222.76	251.77	148.12	133.24	14.88	9.956		
2,600.00	2,549.86	2,601.85	2,568.97	8.41	7.78	-144.23	-235.58	264.06	154.03	138.91	15.12	10.186		
2,700.00	2,647.31	2,701.67	2,667.20	8.59	7.93	-144.36	-248.40	276.36	159.94	144.55	15.39	10.390		
2,800.00	2,744.76	2,801.50	2,765.43	8.78	8.10	-144.48	-261.22	288.65	165.86	150.16	15.69	10.570		
2,900.00	2,842.22	2,901.32	2,863.66	8.98	8.27	-144.59	-274.04	300.95	171.77	155.76	16.01	10.726		
3,000.00	2,939.67	3,001.15	2,961.89	9.20	8.46	-144.69	-286.86	313.24	177.68	161.33	16.36	10.862		
3,100.00	3,037.12	3,100.97	3,060.12	9.43	8.65	-144.79	-299.68	325.54	183.60	166.87	16.72	10.978		
3,200.00	3,134.58	3,200.79	3,158.35	9.66	8.86	-144.88	-312.50	337.83	189.51	172.40	17.11	11.076		
3,300.00	3,232.03	3,300.62	3,256.59	9.91	9.07	-144.96	-325.33	350.13	195.43	177.92	17.51	11.159		
3,400.00	3,329.48	3,400.44	3,354.82	10.17	9.30	-145.04	-338.15	362.42	201.35	183.41	17.93	11.227		
3,500.00	3,426.93	3,500.27	3,453.05	10.43	9.53	-145.12	-350.97	374.71	207.26	188.89	18.37	11.282		
3,600.00	3,524.39	3,600.09	3,551.28	10.71	9.77	-145.19	-363.79	387.01	213.18	194.35	18.82	11.325		
3,700.00	3,621.84	3,699.92	3,649.51	10.99	10.01	-145.26	-376.61	399.30	219.10	199.81	19.29	11.359		
3,800.00	3,719.29	3,799.74	3,747.74	11.27	10.26	-145.32	-389.43	411.60	225.01	205.25	19.77	11.383		
3,900.00	3,816.74	3,900.43	3,845.97	11.57	10.52	-145.38	-402.25	423.89	230.93	210.67	20.26	11.399		
4,000.00	3,914.20	4,000.61	3,944.20	11.87	10.79	-145.44	-415.07	436.19	236.85	216.09	20.76	11.409		
4,100.00	4,011.65	4,100.79	4,042.44	12.17	11.05	-145.49	-427.89	448.48	242.77	221.49	21.27	11.413		
4,200.00	4,109.10	4,200.96	4,140.67	12.48	11.33	-145.55	-440.71	460.78	248.68	226.89	21.79	11.411		
4,300.00	4,206.56	4,301.14	4,238.90	12.79	11.61	-145.59	-453.53	473.07	254.60	232.28	22.32	11.406		
4,400.00	4,304.01	4,401.31	4,337.13	13.11	11.89	-145.64	-466.35	485.37	260.52	237.66	22.86	11.397		
4,500.00	4,401.46	4,501.49	4,435.36	13.43	12.17	-145.69	-479.17	497.66	266.44	243.03	23.40	11.384		
4,600.00	4,498.91	4,601.66	4,533.59	13.76	12.46	-145.73	-491.99	509.96	272.36	248.40	23.96	11.369		
4,700.00	4,596.37	4,701.84	4,631.82	14.09	12.76	-145.77	-504.82	522.25	278.28	253.76	24.52	11.351		
4,800.00	4,693.82	4,802.01	4,730.06	14.42	13.05	-145.81	-517.64	534.54	284.20	259.12	25.08	11.332		
4,900.00	4,791.27	4,902.19	4,828.29	14.75	13.35	-145.85	-530.46	546.84	290.12	264.47	25.65	11.311		
5,000.00	4,888.72	4,997.64	4,926.52	15.09	13.64	-145.89	-543.28	559.13	296.04	269.82	26.21	11.294		
5,100.00	4,986.18	5,097.46	5,024.75	15.43	13.94	-145.92	-556.10	571.43	301.95	275.16	26.79	11.271		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30C-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,083.63	5,202.72	5,122.98	15.78	14.26	-145.96	-568.92	583.72	307.87	280.48	27.39	11.240	
5,300.00	5,181.08	5,302.89	5,221.21	16.12	14.57	-145.99	-581.74	596.02	313.79	285.81	27.98	11.215	
5,400.00	5,278.53	5,403.07	5,319.44	16.47	14.88	-146.02	-594.56	608.31	319.71	291.14	28.57	11.189	
5,500.00	5,375.99	5,496.76	5,417.68	16.82	15.17	-146.05	-607.38	620.61	325.63	296.48	29.15	11.171	
5,600.00	5,473.44	5,603.42	5,515.91	17.17	15.51	-146.08	-620.20	632.90	331.55	301.78	29.77	11.137	
5,700.00	5,570.89	5,703.59	5,614.14	17.52	15.83	-146.11	-633.02	645.20	337.47	307.10	30.37	11.111	
5,800.00	5,668.35	5,803.77	5,712.37	17.88	16.14	-146.13	-645.84	657.49	343.39	312.41	30.98	11.084	
5,900.00	5,765.80	5,896.06	5,810.60	18.23	16.44	-146.16	-658.66	669.79	349.31	317.75	31.57	11.066	
6,000.00	5,863.25	6,004.12	5,908.83	18.59	16.78	-146.19	-671.48	682.08	355.23	323.03	32.20	11.031	
6,100.00	5,960.70	6,104.30	6,007.06	18.95	17.10	-146.21	-684.31	694.37	361.15	328.34	32.82	11.005	
6,200.00	6,058.16	6,204.47	6,105.29	19.31	17.43	-146.23	-697.13	706.67	367.08	333.64	33.44	10.978	
6,300.00	6,155.61	6,304.65	6,203.53	19.67	17.75	-146.26	-709.95	718.96	373.00	338.94	34.06	10.952	
6,400.00	6,253.06	6,395.18	6,301.76	20.03	18.05	-146.28	-722.77	731.26	378.92	344.27	34.65	10.936	
6,500.00	6,350.51	6,505.00	6,399.99	20.40	18.40	-146.30	-735.59	743.55	384.84	349.53	35.30	10.901	
6,600.00	6,447.97	6,594.83	6,498.22	20.76	18.70	-146.32	-748.41	755.85	390.76	354.86	35.90	10.885	
6,700.00	6,545.82	6,694.90	6,597.02	21.04	18.96	-179.89	-761.30	764.45	396.78	360.34	36.44	10.889	
6,800.00	6,643.56	6,795.30	6,696.28	21.24	19.13	-141.14	-774.21	758.06	403.03	366.21	36.82	10.945	
6,900.00	6,738.83	6,895.97	6,793.56	21.40	19.25	-122.24	-786.84	735.94	409.35	372.27	37.08	11.039	
7,000.00	6,829.27	6,996.90	6,886.42	21.50	19.32	-113.09	-798.85	698.54	415.59	378.35	37.24	11.160	
7,100.00	6,912.66	7,098.09	6,972.47	21.56	19.36	-107.95	-809.95	646.68	421.58	384.25	37.33	11.293	
7,200.00	6,986.95	7,199.52	7,049.47	21.59	19.36	-104.72	-819.84	581.57	427.19	389.77	37.42	11.417	
7,300.00	7,050.31	7,301.16	7,115.37	21.58	19.33	-102.55	-828.27	504.80	432.26	394.70	37.56	11.509	
7,400.00	7,101.17	7,402.97	7,168.42	21.54	19.29	-101.06	-834.99	418.28	436.68	398.85	37.83	11.542	
7,500.00	7,138.29	7,504.92	7,207.17	21.46	19.24	-100.03	-839.84	324.23	440.34	402.04	38.30	11.497	
7,600.00	7,160.75	7,606.93	7,230.57	21.37	19.20	-99.38	-842.68	225.08	443.13	404.14	38.99	11.366	
7,700.00	7,168.01	7,708.89	7,237.99	21.26	19.22	-99.05	-843.43	123.51	445.00	405.11	39.90	11.154	
7,800.00	7,168.19	7,808.88	7,237.90	21.16	19.49	-98.99	-843.21	23.52	446.43	405.40	41.03	10.880	
7,900.00	7,168.37	7,908.87	7,237.81	21.19	20.11	-98.92	-842.99	-76.47	447.85	405.46	42.39	10.564	
8,000.00	7,168.55	8,008.86	7,237.72	21.90	20.91	-98.86	-842.77	-176.46	449.28	405.32	43.97	10.219	
8,100.00	7,168.73	8,108.85	7,237.63	22.80	21.82	-98.80	-842.55	-276.44	450.71	404.98	45.73	9.857	
8,200.00	7,168.91	8,208.83	7,237.54	23.78	22.82	-98.73	-842.32	-376.43	452.14	404.48	47.65	9.488	
8,300.00	7,169.09	8,308.82	7,237.45	24.84	23.90	-98.67	-842.10	-476.42	453.57	403.84	49.73	9.121	
8,400.00	7,169.27	8,408.81	7,237.36	25.95	25.04	-98.61	-841.88	-576.41	455.00	403.07	51.93	8.762	
8,500.00	7,169.45	8,508.80	7,237.27	27.12	26.23	-98.55	-841.66	-676.40	456.43	402.18	54.25	8.414	
8,600.00	7,169.62	8,608.79	7,237.19	28.33	27.47	-98.49	-841.43	-776.39	457.86	401.19	56.67	8.080	
8,700.00	7,169.80	8,708.78	7,237.10	29.59	28.76	-98.43	-841.21	-876.37	459.29	400.12	59.17	7.762	
8,800.00	7,169.98	8,808.77	7,237.01	30.88	30.08	-98.37	-840.99	-976.36	460.72	398.97	61.75	7.461	
8,900.00	7,170.16	8,908.75	7,236.92	32.21	31.43	-98.31	-840.77	-1,076.35	462.15	397.75	64.40	7.176	
9,000.00	7,170.34	9,008.74	7,236.83	33.56	32.81	-98.25	-840.55	-1,176.34	463.58	396.47	67.11	6.908	
9,100.00	7,170.52	9,108.73	7,236.74	34.94	34.22	-98.19	-840.32	-1,276.33	465.02	395.14	69.87	6.655	
9,200.00	7,170.70	9,208.72	7,236.65	36.35	35.65	-98.13	-840.10	-1,376.32	466.45	393.77	72.68	6.418	
9,300.00	7,170.88	9,308.71	7,236.56	37.77	37.10	-98.07	-839.88	-1,476.30	467.89	392.35	75.53	6.195	
9,400.00	7,171.06	9,408.70	7,236.47	39.22	38.56	-98.01	-839.66	-1,576.29	469.32	390.90	78.42	5.985	
9,500.00	7,171.24	9,508.69	7,236.38	40.68	40.05	-97.96	-839.43	-1,676.28	470.76	389.41	81.34	5.787	
9,600.00	7,171.42	9,608.67	7,236.29	42.15	41.54	-97.90	-839.21	-1,776.27	472.19	387.90	84.29	5.602	
9,700.00	7,171.60	9,708.66	7,236.20	43.64	43.05	-97.84	-838.99	-1,876.26	473.63	386.36	87.27	5.427	
9,800.00	7,171.78	9,808.65	7,236.11	45.14	44.57	-97.79	-838.77	-1,976.25	475.06	384.79	90.27	5.263	
9,900.00	7,171.95	9,908.64	7,236.02	46.65	46.10	-97.73	-838.55	-2,076.23	476.50	383.21	93.30	5.107	
10,000.00	7,172.13	10,008.63	7,235.93	48.18	47.64	-97.67	-838.32	-2,176.22	477.94	381.60	96.34	4.961	
10,100.00	7,172.31	10,108.62	7,235.84	49.71	49.19	-97.62	-838.10	-2,276.21	479.38	379.97	99.40	4.823	
10,200.00	7,172.49	10,208.61	7,235.75	51.25	50.74	-97.56	-837.88	-2,376.20	480.81	378.33	102.48	4.692	
10,300.00	7,172.67	10,308.59	7,235.66	52.79	52.31	-97.51	-837.66	-2,476.19	482.25	376.68	105.57	4.568	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30C-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,172.85	10,408.58	7,235.57	54.35	53.88	97.45	-837.44	-2,576.18	483.69	375.01	108.68	4.451		
10,500.00	7,173.03	10,508.57	7,235.48	55.91	55.45	97.40	-837.21	-2,676.16	485.13	373.33	111.80	4.339		
10,600.00	7,173.21	10,608.56	7,235.39	57.48	57.03	97.34	-836.99	-2,776.15	486.57	371.64	114.93	4.234		
10,700.00	7,173.39	10,708.55	7,235.30	59.05	58.62	97.29	-836.77	-2,876.14	488.01	369.94	118.08	4.133		
10,800.00	7,173.57	10,808.54	7,235.21	60.62	60.21	97.26	-836.55	-2,976.14	487.91	366.68	121.23	4.025		
10,900.00	7,173.75	10,908.54	7,235.12	62.20	61.80	97.24	-836.32	-3,076.13	486.95	362.55	124.39	3.915		
11,000.00	7,173.93	11,008.54	7,235.03	63.79	63.40	97.22	-836.10	-3,176.13	485.98	358.42	127.57	3.810		
11,100.00	7,174.11	11,108.53	7,234.94	65.38	65.00	97.20	-835.88	-3,276.12	485.02	354.28	130.75	3.710		
11,200.00	7,174.29	11,208.53	7,234.85	66.97	66.61	97.19	-835.66	-3,376.12	484.06	350.13	133.93	3.614		
11,300.00	7,174.47	11,308.52	7,234.76	68.57	68.21	97.17	-835.44	-3,476.11	483.10	345.97	137.13	3.523		
11,400.00	7,174.65	11,408.52	7,234.67	70.17	69.83	97.15	-835.21	-3,576.11	482.13	341.81	140.33	3.436		
11,500.00	7,174.83	11,508.51	7,234.58	71.77	71.44	97.13	-834.99	-3,676.10	481.17	337.64	143.53	3.352		
11,600.00	7,175.01	11,608.51	7,234.49	73.38	73.06	97.12	-834.77	-3,776.10	480.21	333.46	146.74	3.272		
11,700.00	7,175.19	11,708.50	7,234.40	74.99	74.67	97.10	-834.55	-3,876.09	479.25	329.29	149.96	3.196		
11,800.00	7,175.36	11,808.50	7,234.31	76.60	76.30	97.08	-834.32	-3,976.09	478.28	325.10	153.18	3.122		
11,900.00	7,175.54	11,908.49	7,234.22	78.22	77.92	97.06	-834.10	-4,076.08	477.32	320.91	156.41	3.052		
12,000.00	7,175.72	12,008.49	7,234.14	79.83	79.54	97.04	-833.88	-4,176.08	476.36	316.72	159.64	2.984		
12,100.00	7,175.90	12,108.48	7,234.05	81.45	81.17	97.02	-833.66	-4,276.07	475.40	312.52	162.87	2.919		
12,200.00	7,176.08	12,208.48	7,233.96	83.08	82.80	97.01	-833.44	-4,376.07	474.44	308.32	166.11	2.856		
12,300.00	7,176.26	12,308.47	7,233.87	84.70	84.43	96.99	-833.21	-4,476.06	473.47	304.12	169.35	2.796		
12,400.00	7,176.44	12,408.47	7,233.78	86.32	86.06	96.97	-832.99	-4,576.06	472.51	299.91	172.60	2.738		
12,500.00	7,176.62	12,508.46	7,233.69	87.95	87.70	96.95	-832.77	-4,676.05	471.55	295.70	175.85	2.682		
12,600.00	7,176.80	12,608.46	7,233.60	89.58	89.33	96.93	-832.55	-4,776.05	470.59	291.49	179.10	2.628		
12,700.00	7,176.98	12,708.45	7,233.51	91.21	90.97	96.91	-832.32	-4,876.04	469.63	287.27	182.35	2.575		
12,800.00	7,177.16	12,808.45	7,233.42	92.84	92.61	96.89	-832.10	-4,976.04	468.66	283.05	185.61	2.525		
12,900.00	7,177.34	12,908.44	7,233.33	94.47	94.25	96.87	-831.88	-5,076.03	467.70	278.83	188.87	2.476		
13,000.00	7,177.52	13,008.44	7,233.24	96.11	95.89	96.86	-831.66	-5,176.03	466.74	274.61	192.13	2.429		
13,100.00	7,177.70	13,108.44	7,233.15	97.74	97.53	96.84	-831.44	-5,276.02	465.78	270.38	195.40	2.384		
13,200.00	7,177.88	13,208.43	7,233.06	99.38	99.17	96.82	-831.21	-5,376.02	464.82	266.15	198.66	2.340		
13,300.00	7,178.06	13,308.43	7,232.97	101.02	100.81	96.80	-830.99	-5,476.01	463.85	261.92	201.93	2.297		
13,400.00	7,178.24	13,408.42	7,232.88	102.66	102.45	96.78	-830.77	-5,576.01	462.89	257.69	205.20	2.256		
13,500.00	7,178.42	13,508.42	7,232.79	104.30	104.10	96.76	-830.55	-5,676.00	461.93	253.46	208.48	2.216		
13,600.00	7,178.60	13,608.41	7,232.70	105.94	105.75	96.74	-830.32	-5,776.00	460.97	249.22	211.75	2.177		
13,700.00	7,178.78	13,708.41	7,232.61	107.58	107.39	96.72	-830.10	-5,875.99	460.01	244.98	215.03	2.139		
13,800.00	7,178.96	13,808.40	7,232.52	109.23	109.04	96.70	-829.88	-5,975.99	459.05	240.74	218.31	2.103		
13,900.00	7,179.14	13,908.40	7,232.43	110.87	110.69	96.68	-829.66	-6,075.98	458.09	236.50	221.59	2.067		
14,000.00	7,179.32	14,008.39	7,232.34	112.51	112.34	96.66	-829.44	-6,175.98	457.13	232.26	224.87	2.033		
14,100.00	7,179.50	14,108.39	7,232.25	114.16	113.99	96.64	-829.21	-6,275.97	456.16	228.01	228.15	1.999		
14,200.00	7,179.68	14,208.38	7,232.16	115.81	115.64	96.62	-828.99	-6,375.96	455.20	223.76	231.44	1.967		
14,300.00	7,179.86	14,308.38	7,232.07	117.45	117.29	96.60	-828.77	-6,475.96	454.24	219.52	234.73	1.935		
14,400.00	7,180.04	14,408.37	7,231.98	119.10	118.94	96.58	-828.55	-6,575.95	453.28	215.27	238.01	1.904		
14,500.00	7,180.22	14,508.37	7,231.89	120.75	120.59	96.56	-828.32	-6,675.95	452.32	211.02	241.30	1.874		
14,600.00	7,180.40	14,608.36	7,231.80	122.40	122.24	96.54	-828.10	-6,775.94	451.36	206.77	244.59	1.845		
14,700.00	7,180.58	14,708.36	7,231.71	124.05	123.89	96.52	-827.88	-6,875.94	450.40	202.51	247.89	1.817		
14,800.00	7,180.76	14,808.35	7,231.62	125.70	125.55	96.50	-827.66	-6,975.93	449.44	198.26	251.18	1.789		
14,900.00	7,180.94	14,908.35	7,231.53	127.35	127.20	96.48	-827.44	-7,075.93	448.48	194.00	254.47	1.762		
15,000.00	7,181.11	15,008.35	7,231.44	129.00	128.85	96.46	-827.21	-7,175.92	447.52	189.75	257.77	1.736		
15,100.00	7,181.29	15,108.34	7,231.35	130.65	130.51	96.44	-826.99	-7,275.92	446.56	185.49	261.07	1.711		
15,200.00	7,181.47	15,208.34	7,231.26	132.31	132.16	96.41	-826.77	-7,375.91	445.60	181.23	264.36	1.686		
15,300.00	7,181.65	15,308.33	7,231.17	133.96	133.82	96.39	-826.55	-7,475.91	444.63	176.97	267.66	1.661		
15,400.00	7,181.83	15,408.33	7,231.08	135.61	135.48	96.37	-826.32	-7,575.90	443.67	172.71	270.96	1.637		
15,492.61	7,182.00	15,500.93	7,231.00	137.14	137.01	96.35	-826.12	-7,668.51	442.78	168.77	274.02	1.616 SF		



## Hewlett-Packard

### Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8C-27-XR - Wellbore #1 - Design #1											Offset Site Error:		0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:		3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
0.00	0.00	1.00	1.00	3.28	3.28	-75.45	38.98	-150.17	155.15				
100.00	100.00	101.00	101.00	3.28	3.28	-75.45	38.98	-150.17	155.15	147.62	7.53	20.607	
200.00	200.00	201.01	201.01	3.31	3.31	-75.45	38.98	-150.17	155.15	147.57	7.57	20.484	
200.32	200.32	201.33	201.33	3.31	3.31	138.10	38.98	-150.17	155.15	147.57	7.57	20.483 CC, ES	
300.00	299.98	301.97	301.95	3.35	3.35	137.86	37.17	-150.31	156.13	148.47	7.65	20.399	
400.00	399.84	402.85	402.68	3.41	3.41	137.20	31.82	-150.71	159.09	151.32	7.77	20.475	
500.00	499.45	503.57	503.00	3.49	3.49	136.15	22.96	-151.38	164.08	156.14	7.94	20.668	
600.00	598.70	603.73	602.43	3.61	3.60	134.89	10.97	-152.28	171.16	162.99	8.17	20.957	
700.00	697.47	703.26	701.17	3.76	3.75	134.31	-1.52	-153.22	180.66	172.21	8.46	21.365	
800.00	795.62	802.53	799.66	3.96	3.91	134.49	-13.98	-154.15	192.60	183.80	8.80	21.879	
900.00	893.16	901.49	897.83	4.20	4.10	135.31	-26.40	-155.09	206.66	197.46	9.20	22.452	
1,000.00	990.62	1,000.40	995.95	4.49	4.31	136.17	-38.81	-156.02	221.06	211.42	9.64	22.922	
1,100.00	1,088.07	1,100.70	1,094.07	4.80	4.53	136.93	-51.23	-156.95	235.50	225.38	10.12	23.264	
1,200.00	1,185.52	1,201.79	1,192.19	5.13	4.78	137.61	-63.64	-157.89	249.98	239.34	10.63	23.506	
1,300.00	1,282.97	1,302.89	1,290.31	5.48	5.03	138.21	-76.05	-158.82	264.48	253.31	11.17	23.672	
1,400.00	1,380.43	1,403.98	1,388.43	5.85	5.29	138.74	-88.47	-159.75	279.01	267.28	11.73	23.781	
1,500.00	1,477.88	1,505.07	1,486.55	6.23	5.57	139.23	-100.88	-160.69	293.56	281.25	12.31	23.845	
1,600.00	1,575.33	1,606.17	1,584.67	6.62	5.85	139.67	-113.29	-161.62	308.14	295.23	12.91	23.876	
1,700.00	1,672.79	1,707.26	1,682.79	7.02	6.14	140.06	-125.70	-162.55	322.72	309.21	13.51	23.882	
1,800.00	1,770.24	1,808.35	1,780.91	7.42	6.42	140.43	-138.12	-163.49	337.32	323.20	14.12	23.888	
1,900.00	1,867.69	1,909.45	1,879.03	7.65	6.56	140.76	-150.53	-164.42	351.94	337.87	14.06	25.024	
2,000.00	1,965.14	1,989.46	1,977.15	7.70	6.59	141.07	-162.94	-165.35	366.56	352.45	14.11	25.972	
2,100.00	2,062.60	2,088.37	2,075.27	7.78	6.63	141.35	-175.35	-166.29	381.19	366.99	14.20	26.842	
2,200.00	2,160.05	2,187.27	2,173.39	7.87	6.69	141.62	-187.77	-167.22	395.84	381.51	14.32	27.639	
2,300.00	2,257.50	2,286.18	2,271.51	7.98	6.76	141.86	-200.18	-168.16	410.49	396.01	14.47	28.360	
2,400.00	2,354.95	2,385.09	2,369.63	8.11	6.85	142.09	-212.59	-169.09	425.14	410.49	14.66	29.005	
2,500.00	2,452.41	2,483.99	2,467.75	8.25	6.95	142.30	-225.00	-170.02	439.81	424.93	14.87	29.575	
2,600.00	2,549.86	2,582.90	2,565.87	8.41	7.06	142.50	-237.42	-170.96	454.47	439.36	15.11	30.074	
2,700.00	2,647.31	2,681.81	2,663.99	8.59	7.18	142.68	-249.83	-171.89	469.15	453.77	15.38	30.504	
2,800.00	2,744.76	2,780.71	2,762.11	8.78	7.32	142.86	-262.24	-172.82	483.82	468.15	15.67	30.869	
2,900.00	2,842.22	2,879.62	2,860.23	8.98	7.46	143.02	-274.65	-173.76	498.51	482.52	15.99	31.175	
3,000.00	2,939.67	2,978.53	2,958.35	9.20	7.62	143.18	-287.07	-174.69	513.19	496.86	16.33	31.425	
3,100.00	3,037.12	3,077.43	3,056.47	9.43	7.79	143.32	-299.48	-175.62	527.88	511.19	16.69	31.626	
3,200.00	3,134.58	3,176.34	3,154.59	9.66	7.96	143.46	-311.89	-176.56	542.57	525.50	17.07	31.783	
3,300.00	3,232.03	3,275.25	3,252.71	9.91	8.15	143.59	-324.30	-177.49	557.27	539.80	17.47	31.899	
3,400.00	3,329.48	3,374.15	3,350.83	10.17	8.34	143.72	-336.72	-178.42	571.97	554.08	17.89	31.980	
3,500.00	3,426.93	3,473.06	3,448.95	10.43	8.54	143.84	-349.13	-179.36	586.67	568.35	18.32	32.030	
3,600.00	3,524.39	3,571.97	3,547.07	10.71	8.75	143.95	-361.54	-180.29	601.37	582.61	18.76	32.052	
3,700.00	3,621.84	3,670.87	3,645.19	10.99	8.96	144.06	-373.96	-181.22	616.07	596.85	19.22	32.051	
3,800.00	3,719.29	3,769.78	3,743.31	11.27	9.18	144.16	-386.37	-182.16	630.78	611.09	19.69	32.030	
3,900.00	3,816.74	3,868.68	3,841.43	11.57	9.41	144.26	-398.78	-183.09	645.49	625.31	20.18	31.991	
4,000.00	3,914.20	3,967.59	3,939.55	11.87	9.64	144.35	-411.19	-184.02	660.20	639.53	20.67	31.938	
4,100.00	4,011.65	4,066.50	4,037.67	12.17	9.87	144.44	-423.61	-184.96	674.91	653.74	21.18	31.872	
4,200.00	4,109.10	4,165.40	4,135.79	12.48	10.11	144.52	-436.02	-185.89	689.63	667.94	21.69	31.796	
4,300.00	4,206.56	4,264.31	4,233.91	12.79	10.35	144.60	-448.43	-186.82	704.34	682.13	22.21	31.710	
4,400.00	4,304.01	4,363.22	4,332.03	13.11	10.60	144.68	-460.84	-187.76	719.06	696.32	22.74	31.618	
4,500.00	4,401.46	4,462.12	4,430.15	13.43	10.85	144.76	-473.26	-188.69	733.78	710.50	23.28	31.520	
4,600.00	4,498.91	4,561.03	4,528.27	13.76	11.10	144.83	-485.67	-189.62	748.49	724.67	23.82	31.417	
4,700.00	4,596.37	4,659.94	4,626.39	14.09	11.36	144.90	-498.08	-190.56	763.21	738.84	24.38	31.310	
4,800.00	4,693.82	4,758.84	4,724.51	14.42	11.62	144.97	-510.49	-191.49	777.93	753.00	24.93	31.201	
4,900.00	4,791.27	4,857.75	4,822.63	14.75	11.89	145.03	-522.91	-192.42	792.66	767.16	25.50	31.089	
5,000.00	4,888.72	4,956.66	4,920.75	15.09	12.15	145.09	-535.32	-193.36	807.38	781.32	26.06	30.977	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8C-27-XR - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,986.18	5,055.56	5,018.87	15.43	12.42	145.15	-547.73	-194.29	822.10	795.47	26.64	30.863		
5,200.00	5,083.63	5,154.47	5,116.99	15.78	12.69	145.21	-560.14	-195.22	836.83	809.61	27.21	30.749		
5,300.00	5,181.08	5,253.38	5,215.11	16.12	12.96	145.27	-572.56	-196.16	851.55	823.76	27.80	30.635		
5,400.00	5,278.53	5,352.28	5,313.23	16.47	13.24	145.32	-584.97	-197.09	866.28	837.90	28.38	30.521		
5,500.00	5,375.99	5,451.19	5,411.35	16.82	13.51	145.37	-597.38	-198.02	881.01	852.03	28.97	30.408		
5,600.00	5,473.44	5,550.10	5,509.47	17.17	13.79	145.42	-609.79	-198.96	895.73	866.17	29.57	30.296		
5,700.00	5,570.89	5,649.00	5,607.59	17.52	14.07	145.47	-622.21	-199.89	910.46	880.30	30.16	30.185		
5,800.00	5,668.35	5,747.91	5,705.71	17.88	14.35	145.52	-634.62	-200.82	925.19	894.43	30.76	30.076		
5,900.00	5,765.80	5,846.82	5,803.83	18.23	14.63	145.56	-647.03	-201.76	939.92	908.56	31.36	29.967		
6,000.00	5,863.25	5,945.72	5,901.95	18.59	14.92	145.61	-659.45	-202.69	954.65	922.68	31.97	29.860		
6,100.00	5,960.70	6,044.63	6,000.07	18.95	15.20	145.65	-671.86	-203.62	969.38	936.80	32.58	29.755		
6,200.00	6,058.16	6,143.54	6,098.19	19.31	15.49	145.69	-684.27	-204.56	984.11	950.92	33.19	29.652		
6,300.00	6,155.61	6,242.44	6,196.31	19.67	15.78	145.73	-696.68	-205.49	998.85	965.04	33.80	29.550		
6,400.00	6,253.06	6,341.35	6,294.43	20.03	16.07	145.77	-709.10	-206.42	1,013.58	979.16	34.42	29.449		
6,500.00	6,350.51	6,440.25	6,392.55	20.40	16.36	145.81	-721.51	-207.36	1,028.31	993.27	35.03	29.351		
6,600.00	6,447.97	6,539.16	6,491.44	20.76	16.65	145.85	-733.92	-208.29	1,043.04	1,007.38	35.64	29.254		
6,700.00	6,545.82	6,643.56	6,595.89	21.12	16.94	145.89	-746.33	-209.22	1,057.77	1,021.49	36.25	29.157		
6,800.00	6,643.56	6,747.91	6,699.81	21.48	17.23	145.93	-758.74	-210.15	1,072.50	1,035.60	36.86	29.060		
6,900.00	6,741.30	6,852.26	6,804.23	21.84	17.52	145.97	-771.15	-211.08	1,087.23	1,049.71	37.47	28.963		
7,000.00	6,839.04	6,956.61	6,910.17	22.20	17.81	146.01	-783.56	-212.01	1,101.96	1,063.82	38.08	28.866		
7,100.00	6,936.78	7,060.96	7,014.30	22.56	18.10	146.05	-795.97	-212.94	1,116.69	1,077.93	38.69	28.769		
7,200.00	7,034.52	7,165.31	7,118.43	22.92	18.39	146.09	-808.38	-213.87	1,131.42	1,092.04	39.30	28.672		
7,300.00	7,132.26	7,269.66	7,222.56	23.28	18.68	146.13	-820.79	-214.80	1,146.15	1,106.15	39.91	28.575		
7,400.00	7,230.00	7,374.01	7,327.69	23.64	18.97	146.17	-833.20	-215.73	1,160.88	1,120.26	40.52	28.478		
7,500.00	7,327.74	7,478.36	7,432.02	24.00	19.26	146.21	-845.61	-216.66	1,175.61	1,134.37	41.13	28.381		
7,600.00	7,425.48	7,582.71	7,536.35	24.36	19.55	146.25	-858.02	-217.59	1,190.34	1,148.48	41.74	28.284		
7,700.00	7,523.22	7,687.06	7,641.49	24.72	19.84	146.29	-870.43	-218.52	1,205.07	1,162.59	42.35	28.187		
7,800.00	7,620.96	7,791.41	7,745.83	25.08	20.13	146.33	-882.84	-219.45	1,219.80	1,176.70	42.96	28.090		
7,900.00	7,718.70	7,895.76	7,850.17	25.44	20.42	146.37	-895.25	-220.38	1,234.53	1,190.81	43.57	27.993		
8,000.00	7,816.44	8,000.11	7,954.50	25.80	20.71	146.41	-907.66	-221.31	1,249.26	1,204.92	44.18	27.896		
8,100.00	7,914.18	8,104.46	8,058.83	26.16	21.00	146.45	-920.07	-222.24	1,263.99	1,219.03	44.79	27.799		
8,200.00	8,011.92	8,208.81	8,163.17	26.52	21.29	146.49	-932.48	-223.17	1,278.72	1,233.14	45.40	27.702		
8,300.00	8,109.66	8,313.16	8,267.50	26.88	21.58	146.53	-944.89	-224.10	1,293.45	1,247.25	46.01	27.605		
8,400.00	8,207.40	8,417.51	8,371.83	27.24	21.87	146.57	-957.30	-225.03	1,308.18	1,261.36	46.62	27.508		
8,500.00	8,305.14	8,521.86	8,476.17	27.60	22.16	146.61	-969.71	-225.96	1,322.91	1,275.47	47.23	27.411		
8,600.00	8,402.88	8,626.21	8,580.50	27.96	22.45	146.65	-982.12	-226.89	1,337.64	1,289.58	47.84	27.314		
8,700.00	8,500.62	8,730.56	8,684.83	28.32	22.74	146.69	-994.53	-227.82	1,352.37	1,303.69	48.45	27.217		
8,800.00	8,598.36	8,834.91	8,789.17	28.68	23.03	146.73	-1,006.94	-228.75	1,367.10	1,317.80	49.06	27.120		
8,900.00	8,696.10	8,939.26	8,893.50	29.04	23.32	146.77	-1,019.35	-229.68	1,381.83	1,331.91	49.67	27.023		
9,000.00	8,793.84	9,043.61	8,997.83	29.40	23.61	146.81	-1,031.76	-230.61	1,396.56	1,346.02	50.28	26.926		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8N-27B-XR - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-82.80	18.94	-149.89	151.08					
100.00	100.00	101.00	101.00	3.28	3.28	-82.80	18.94	-149.89	151.08	143.56	7.53	20.067		
200.00	200.00	201.00	201.00	3.31	3.31	-82.80	18.94	-149.89	151.08	143.51	7.57	19.947		
200.11	200.11	201.11	201.11	3.31	3.31	-82.80	18.94	-149.89	151.08	143.51	7.57	19.947	CC, ES	
300.00	299.98	301.32	301.30	3.35	3.35	130.56	17.15	-150.01	152.11	144.46	7.65	19.875		
400.00	399.84	401.56	401.39	3.41	3.41	130.03	11.87	-150.34	155.21	147.44	7.77	19.977		
500.00	499.45	501.64	501.09	3.49	3.49	129.21	3.11	-150.90	160.40	152.46	7.94	20.204		
600.00	598.70	601.50	600.19	3.61	3.60	128.13	-9.09	-151.68	167.69	159.52	8.17	20.528		
700.00	697.47	701.06	698.59	3.76	3.75	127.03	-24.24	-152.65	177.11	168.64	8.47	20.918		
800.00	795.62	800.39	796.69	3.96	3.93	126.72	-39.76	-153.64	188.64	179.81	8.83	21.357		
900.00	893.16	900.52	894.55	4.20	4.14	127.20	-55.25	-154.63	201.98	192.72	9.26	21.804		
1,000.00	990.62	1,001.48	992.38	4.49	4.37	127.79	-70.73	-155.61	215.58	205.84	9.74	22.129		
1,100.00	1,088.07	1,102.43	1,090.20	4.80	4.62	128.31	-86.21	-156.60	229.20	218.94	10.26	22.333		
1,200.00	1,185.52	1,203.38	1,188.03	5.13	4.88	128.78	-101.69	-157.59	242.84	232.02	10.82	22.447		
1,300.00	1,282.97	1,304.33	1,285.85	5.48	5.16	129.20	-117.17	-158.58	256.48	245.08	11.40	22.493		
1,400.00	1,380.43	1,405.28	1,383.68	5.85	5.46	129.57	-132.65	-159.56	270.15	258.13	12.01	22.489		
1,500.00	1,477.88	1,506.24	1,481.50	6.23	5.76	129.91	-148.13	-160.55	283.82	271.18	12.64	22.450		
1,600.00	1,575.33	1,607.19	1,579.33	6.62	6.07	130.21	-163.61	-161.54	297.50	284.21	13.29	22.387		
1,700.00	1,672.79	1,708.14	1,677.16	7.02	6.38	130.49	-179.09	-162.53	311.19	297.24	13.95	22.306		
1,800.00	1,770.24	1,809.09	1,774.98	7.42	6.69	130.75	-194.57	-163.51	324.88	310.27	14.61	22.235		
1,900.00	1,867.69	1,889.95	1,872.81	7.65	6.83	130.98	-210.05	-164.50	338.58	324.02	14.57	23.246		
2,000.00	1,965.14	1,989.00	1,970.63	7.70	6.88	131.20	-225.53	-165.49	352.29	337.64	14.65	24.044		
2,100.00	2,062.60	2,088.05	2,068.46	7.78	6.93	131.40	-241.01	-166.48	366.00	351.24	14.76	24.801		
2,200.00	2,160.05	2,187.10	2,166.28	7.87	7.00	131.59	-256.49	-167.46	379.71	364.82	14.90	25.488		
2,300.00	2,257.50	2,286.15	2,264.11	7.98	7.08	131.76	-271.97	-168.45	393.43	378.36	15.07	26.105		
2,400.00	2,354.95	2,385.19	2,361.93	8.11	7.18	131.92	-287.45	-169.44	407.15	391.88	15.28	26.653		
2,500.00	2,452.41	2,484.24	2,459.76	8.25	7.29	132.07	-302.93	-170.43	420.88	405.37	15.51	27.132		
2,600.00	2,549.86	2,583.29	2,557.59	8.41	7.42	132.22	-318.41	-171.41	434.61	418.83	15.78	27.546		
2,700.00	2,647.31	2,682.34	2,655.41	8.59	7.55	132.35	-333.89	-172.40	448.34	432.26	16.07	27.898		
2,800.00	2,744.76	2,781.38	2,753.24	8.78	7.70	132.47	-349.37	-173.39	462.07	445.68	16.39	28.193		
2,900.00	2,842.22	2,880.43	2,851.06	8.98	7.87	132.59	-364.85	-174.38	475.80	459.07	16.73	28.435		
3,000.00	2,939.67	2,979.48	2,948.89	9.20	8.04	132.70	-380.33	-175.36	489.54	472.44	17.10	28.628		
3,100.00	3,037.12	3,078.53	3,046.71	9.43	8.22	132.81	-395.81	-176.35	503.27	485.79	17.49	28.779		
3,200.00	3,134.58	3,177.58	3,144.54	9.66	8.41	132.91	-411.29	-177.34	517.01	499.12	17.90	28.890		
3,300.00	3,232.03	3,276.62	3,242.37	9.91	8.61	133.00	-426.77	-178.33	530.75	512.43	18.32	28.967		
3,400.00	3,329.48	3,375.67	3,340.19	10.17	8.82	133.09	-442.25	-179.32	544.50	525.73	18.77	29.014		
3,500.00	3,426.93	3,474.72	3,438.02	10.43	9.04	133.18	-457.73	-180.30	558.24	539.01	19.23	29.034		
3,600.00	3,524.39	3,573.77	3,535.84	10.71	9.26	133.26	-473.21	-181.29	571.98	552.28	19.70	29.032		
3,700.00	3,621.84	3,672.81	3,633.67	10.99	9.50	133.33	-488.69	-182.28	585.73	565.54	20.19	29.010		
3,800.00	3,719.29	3,771.86	3,731.49	11.27	9.73	133.41	-504.17	-183.27	599.47	578.78	20.69	28.971		
3,900.00	3,816.74	3,870.91	3,829.32	11.57	9.98	133.48	-519.65	-184.25	613.22	592.02	21.21	28.918		
4,000.00	3,914.20	3,969.96	3,927.15	11.87	10.22	133.55	-535.13	-185.24	626.97	605.24	21.73	28.852		
4,100.00	4,011.65	4,069.01	4,024.97	12.17	10.48	133.61	-550.61	-186.23	640.72	618.45	22.27	28.777		
4,200.00	4,109.10	4,168.05	4,122.80	12.48	10.73	133.67	-566.09	-187.22	654.47	631.66	22.81	28.693		
4,300.00	4,206.56	4,267.10	4,220.62	12.79	11.00	133.73	-581.57	-188.20	668.22	644.86	23.36	28.602		
4,400.00	4,304.01	4,366.15	4,318.45	13.11	11.26	133.79	-597.05	-189.19	681.97	658.05	23.92	28.506		
4,500.00	4,401.46	4,465.20	4,416.27	13.43	11.53	133.84	-612.53	-190.18	695.72	671.23	24.49	28.406		
4,600.00	4,498.91	4,564.25	4,514.10	13.76	11.80	133.89	-628.01	-191.17	709.47	684.41	25.07	28.302		
4,700.00	4,596.37	4,663.29	4,611.92	14.09	12.08	133.95	-643.49	-192.15	723.23	697.58	25.65	28.196		
4,800.00	4,693.82	4,762.34	4,709.75	14.42	12.36	133.99	-658.97	-193.14	736.98	710.74	26.24	28.088		
4,900.00	4,791.27	4,861.39	4,807.58	14.75	12.64	134.04	-674.45	-194.13	750.73	723.90	26.83	27.978		
5,000.00	4,888.72	4,960.44	4,905.40	15.09	12.93	134.09	-689.93	-195.12	764.49	737.06	27.43	27.868		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8N-27B-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,986.18	5,059.48	5,003.23	15.43	13.21	134.13	-705.41	-196.10	778.24	750.21	28.04	27.758	
5,200.00	5,083.63	5,158.53	5,101.05	15.78	13.50	134.17	-720.89	-197.09	792.00	763.35	28.65	27.648	
5,300.00	5,181.08	5,257.58	5,198.88	16.12	13.79	134.21	-736.37	-198.08	805.75	776.49	29.26	27.538	
5,400.00	5,278.53	5,356.63	5,296.70	16.47	14.09	134.25	-751.85	-199.07	819.51	789.63	29.88	27.429	
5,500.00	5,375.99	5,455.68	5,394.53	16.82	14.38	134.29	-767.33	-200.05	833.27	802.77	30.50	27.321	
5,600.00	5,473.44	5,554.72	5,492.36	17.17	14.68	134.33	-782.81	-201.04	847.02	815.90	31.12	27.215	
5,700.00	5,570.89	5,653.77	5,590.18	17.52	14.98	134.36	-798.29	-202.03	860.78	829.03	31.75	27.109	
5,800.00	5,668.35	5,752.82	5,688.01	17.88	15.28	134.40	-813.77	-203.02	874.54	842.15	32.38	27.005	
5,900.00	5,765.80	5,851.87	5,785.83	18.23	15.58	134.43	-829.25	-204.00	888.30	855.28	33.02	26.903	
6,000.00	5,863.25	5,950.91	5,883.66	18.59	15.89	134.46	-844.73	-204.99	902.05	868.40	33.66	26.802	
6,100.00	5,960.70	6,049.96	5,981.48	18.95	16.19	134.49	-860.21	-205.98	915.81	881.52	34.30	26.703	
6,200.00	6,058.16	6,149.01	6,079.31	19.31	16.50	134.52	-875.69	-206.97	929.57	894.63	34.94	26.606	
6,300.00	6,155.61	6,248.06	6,177.14	19.67	16.80	134.55	-891.17	-207.96	943.33	907.75	35.58	26.510	
6,400.00	6,253.06	7,906.08	7,159.74	20.03	23.12	-173.51	-1,043.51	726.03	907.35	878.12	29.23	31.038	
6,500.00	6,350.51	7,918.66	7,159.77	20.40	23.25	-170.89	-1,043.48	738.61	811.62	781.83	29.78	27.250	
6,600.00	6,447.97	7,931.25	7,159.80	20.76	23.37	-168.16	-1,043.44	751.20	716.83	686.39	30.44	23.552	
6,700.00	6,545.82	7,938.76	7,159.82	21.04	23.45	179.19	-1,043.42	758.71	623.03	591.82	31.21	19.961	
6,800.00	6,643.56	7,930.89	7,159.80	21.24	23.37	159.14	-1,043.44	750.84	531.46	499.34	32.13	16.541	
6,900.00	6,738.83	7,907.54	7,159.74	21.40	23.14	149.77	-1,043.51	727.49	445.55	412.27	33.28	13.386	
7,000.00	6,829.27	7,869.29	7,159.65	21.50	22.77	143.57	-1,043.62	689.24	369.20	334.41	34.79	10.611	
7,100.00	6,912.66	7,817.07	7,159.51	21.56	22.28	136.59	-1,043.77	637.02	306.73	270.09	36.64	8.372	
7,200.00	6,986.95	7,752.17	7,159.35	21.59	21.73	127.65	-1,043.97	572.12	262.17	223.72	38.45	6.818	
7,300.00	7,050.31	7,676.19	7,159.16	21.58	21.15	116.82	-1,044.19	496.14	237.27	197.78	39.49	6.008	
7,400.00	7,101.17	7,590.55	7,158.80	21.54	20.61	105.39	-1,044.42	410.51	229.11	189.73	39.38	5.818 SF	
7,422.06	7,110.58	7,570.59	7,158.03	21.52	20.50	102.86	-1,044.36	390.56	228.88	189.64	39.24	5.832	
7,500.00	7,138.29	7,502.27	7,150.73	21.46	20.17	94.20	-1,043.43	322.67	231.60	193.01	38.59	6.002	
7,600.00	7,160.75	7,418.91	7,132.16	21.37	19.87	84.04	-1,040.77	241.51	242.09	204.43	37.67	6.427	
7,700.00	7,168.01	7,339.40	7,104.84	21.26	19.65	75.38	-1,036.69	167.01	258.28	221.33	36.95	6.991	
7,800.00	7,168.19	7,266.09	7,071.70	21.16	19.48	68.84	-1,031.67	101.85	282.02	245.51	36.51	7.724	
7,900.00	7,168.37	7,200.00	7,035.67	21.19	19.33	62.62	-1,026.15	46.76	317.04	280.70	36.34	8.724	
8,000.00	7,168.55	7,145.47	7,001.82	21.90	19.21	57.57	-1,020.94	4.35	363.02	326.44	36.58	9.925	
8,100.00	7,168.73	7,100.00	6,970.94	22.80	19.11	53.56	-1,016.16	-28.67	418.62	381.58	37.04	11.302	
8,200.00	7,168.91	7,050.00	6,934.40	23.78	19.00	49.46	-1,010.49	-62.30	482.10	444.75	37.35	12.909	
8,300.00	7,169.09	7,018.70	6,910.24	24.84	18.93	47.09	-1,006.74	-81.84	551.79	513.87	37.92	14.551	
8,400.00	7,169.27	6,987.17	6,884.97	25.95	18.86	44.84	-1,002.80	-100.28	626.48	588.12	38.36	16.332	
8,500.00	7,169.45	6,950.00	6,854.07	27.12	18.77	42.40	-997.98	-120.36	705.24	666.59	38.65	18.248	
8,600.00	7,169.62	6,935.51	6,841.72	28.33	18.74	41.50	-996.05	-127.69	786.86	747.78	39.08	20.135	
8,700.00	7,169.80	6,914.23	6,823.29	29.59	18.69	40.24	-993.17	-137.93	871.15	831.78	39.37	22.130	
8,800.00	7,169.98	6,900.00	6,810.79	30.88	18.65	39.44	-991.21	-144.43	957.51	917.88	39.63	24.160	
8,900.00	7,170.16	6,878.53	6,791.65	32.21	18.60	38.28	-988.22	-153.69	1,045.51	1,005.69	39.82	26.255	
9,000.00	7,170.34	6,850.00	6,765.77	33.56	18.53	36.83	-984.16	-164.99	1,135.17	1,095.20	39.96	28.406	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8N-27C-XR - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-90.42	-1.09	-149.89	149.90					
100.00	100.00	101.00	101.00	3.28	3.28	-90.42	-1.09	-149.89	149.90	142.37	7.53	19.909		
200.00	200.00	201.00	201.00	3.31	3.31	-90.42	-1.09	-149.89	149.90	142.32	7.57	19.790		
300.00	299.98	300.66	300.64	3.35	3.35	123.00	-2.86	-149.99	150.96	143.31	7.65	19.725		
400.00	399.84	400.26	400.10	3.41	3.41	122.63	-8.08	-150.27	154.15	146.38	7.77	19.842		
500.00	499.45	499.71	499.16	3.49	3.49	122.05	-16.73	-150.74	159.46	151.52	7.94	20.089		
600.00	598.70	598.95	597.66	3.61	3.60	121.31	-28.79	-151.39	166.91	158.74	8.17	20.436		
700.00	697.47	697.91	695.40	3.76	3.75	120.44	-44.19	-152.23	176.48	168.02	8.47	20.843		
800.00	795.62	803.03	792.79	3.96	3.95	119.70	-62.32	-153.21	188.12	179.26	8.86	21.238		
900.00	893.16	903.90	890.19	4.20	4.17	119.79	-80.70	-154.20	201.28	191.96	9.31	21.611		
1,000.00	990.62	1,004.80	987.57	4.49	4.42	120.06	-99.07	-155.20	214.63	204.81	9.82	21.849		
1,100.00	1,088.07	1,105.70	1,084.94	4.80	4.70	120.30	-117.44	-156.19	228.00	217.62	10.38	21.965		
1,200.00	1,185.52	1,206.60	1,182.32	5.13	4.99	120.52	-135.81	-157.19	241.36	230.39	10.98	21.991		
1,300.00	1,282.97	1,307.51	1,279.70	5.48	5.29	120.71	-154.19	-158.19	254.73	243.13	11.60	21.953		
1,400.00	1,380.43	1,408.41	1,377.07	5.85	5.61	120.88	-172.56	-159.18	268.10	255.84	12.26	21.871		
1,500.00	1,477.88	1,509.31	1,474.45	6.23	5.94	121.04	-190.93	-160.18	281.47	268.54	12.94	21.760		
1,600.00	1,575.33	1,589.79	1,571.82	6.62	6.21	121.18	-209.30	-161.17	294.85	281.29	13.56	21.741		
1,700.00	1,672.79	1,688.89	1,669.20	7.02	6.55	121.31	-227.68	-162.17	308.23	293.96	14.27	21.605		
1,800.00	1,770.24	1,787.99	1,766.58	7.42	6.90	121.43	-246.05	-163.16	321.61	306.62	14.98	21.463		
1,900.00	1,867.69	1,887.09	1,863.95	7.65	7.11	121.54	-264.42	-164.16	334.98	319.96	15.02	22.302		
2,000.00	1,965.14	1,986.19	1,961.33	7.70	7.17	121.64	-282.79	-165.15	348.36	333.24	15.13	23.027		
2,100.00	2,062.60	2,085.29	2,058.70	7.78	7.23	121.73	-301.17	-166.15	361.75	346.50	15.25	23.719		
2,200.00	2,160.05	2,184.39	2,156.08	7.87	7.30	121.82	-319.54	-167.14	375.13	359.72	15.41	24.344		
2,300.00	2,257.50	2,283.48	2,253.46	7.98	7.40	121.90	-337.91	-168.14	388.51	372.91	15.60	24.900		
2,400.00	2,354.95	2,382.58	2,350.83	8.11	7.51	121.97	-356.28	-169.13	401.90	386.07	15.83	25.390		
2,500.00	2,452.41	2,481.68	2,448.21	8.25	7.63	122.04	-374.66	-170.13	415.28	399.19	16.09	25.815		
2,600.00	2,549.86	2,580.78	2,545.58	8.41	7.77	122.11	-393.03	-171.12	428.67	412.29	16.37	26.178		
2,700.00	2,647.31	2,679.88	2,642.96	8.59	7.92	122.17	-411.40	-172.12	442.05	425.36	16.69	26.484		
2,800.00	2,744.76	2,778.98	2,740.34	8.78	8.09	122.23	-429.77	-173.11	455.44	438.40	17.03	26.736		
2,900.00	2,842.22	2,878.08	2,837.71	8.98	8.26	122.29	-448.15	-174.11	468.82	451.42	17.40	26.939		
3,000.00	2,939.67	2,977.18	2,935.09	9.20	8.45	122.34	-466.52	-175.10	482.21	464.41	17.80	27.097		
3,100.00	3,037.12	3,076.28	3,032.46	9.43	8.65	122.39	-484.89	-176.10	495.60	477.39	18.21	27.216		
3,200.00	3,134.58	3,175.37	3,129.84	9.66	8.86	122.43	-503.26	-177.09	508.99	490.34	18.64	27.299		
3,300.00	3,232.03	3,274.47	3,227.22	9.91	9.08	122.48	-521.64	-178.09	522.37	503.28	19.10	27.352		
3,400.00	3,329.48	3,373.57	3,324.59	10.17	9.30	122.52	-540.01	-179.08	535.76	516.19	19.57	27.377		
3,500.00	3,426.93	3,472.67	3,421.97	10.43	9.54	122.56	-558.38	-180.08	549.15	529.09	20.06	27.378		
3,600.00	3,524.39	3,571.77	3,519.34	10.71	9.78	122.60	-576.75	-181.07	562.54	541.98	20.56	27.359		
3,700.00	3,621.84	3,670.87	3,616.72	10.99	10.03	122.63	-595.13	-182.07	575.93	554.85	21.08	27.323		
3,800.00	3,719.29	3,769.97	3,714.09	11.27	10.29	122.67	-613.50	-183.06	589.32	567.71	21.61	27.272		
3,900.00	3,816.74	3,869.07	3,811.47	11.57	10.55	122.70	-631.87	-184.06	602.71	580.56	22.15	27.209		
4,000.00	3,914.20	3,968.17	3,908.85	11.87	10.82	122.73	-650.24	-185.05	616.10	593.39	22.70	27.136		
4,100.00	4,011.65	4,067.27	4,006.22	12.17	11.09	122.76	-668.62	-186.05	629.49	606.22	23.27	27.053		
4,200.00	4,109.10	4,166.36	4,103.60	12.48	11.36	122.79	-686.99	-187.04	642.88	619.03	23.84	26.964		
4,300.00	4,206.56	4,265.46	4,200.97	12.79	11.65	122.82	-705.36	-188.04	656.27	631.84	24.42	26.869		
4,400.00	4,304.01	4,364.56	4,298.35	13.11	11.93	122.85	-723.73	-189.03	669.66	644.64	25.02	26.770		
4,500.00	4,401.46	4,463.66	4,395.73	13.43	12.22	122.87	-742.10	-190.03	683.05	657.43	25.61	26.667		
4,600.00	4,498.91	4,562.76	4,493.10	13.76	12.51	122.90	-760.48	-191.02	696.44	670.22	26.22	26.562		
4,700.00	4,596.37	4,661.86	4,590.48	14.09	12.81	122.92	-778.85	-192.02	709.83	683.00	26.83	26.455		
4,800.00	4,693.82	4,760.96	4,687.85	14.42	13.11	122.94	-797.22	-193.01	723.22	695.77	27.45	26.347		
4,900.00	4,791.27	4,860.06	4,785.23	14.75	13.41	122.97	-815.59	-194.01	736.61	708.54	28.07	26.238		
5,000.00	4,888.72	4,959.16	4,882.61	15.09	13.71	122.99	-833.97	-195.00	750.00	721.30	28.70	26.128		
5,100.00	4,986.18	5,058.26	4,979.98	15.43	14.02	123.01	-852.34	-196.00	763.39	734.05	29.34	26.020		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8N-27C-XR - Wellbore #1 - Design #1												Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,083.63	5,157.35	5,077.36	15.78	14.33	123.03	-870.71	-196.99	776.78	746.80	29.98	25.911	
5,300.00	5,181.08	5,256.45	5,174.73	16.12	14.64	123.05	-889.08	-197.99	790.17	759.55	30.62	25.804	
5,400.00	5,278.53	5,355.55	5,272.11	16.47	14.96	123.07	-907.46	-198.99	803.57	772.29	31.27	25.697	
5,500.00	5,375.99	5,454.65	5,369.49	16.82	15.27	123.08	-925.83	-199.98	816.96	785.03	31.92	25.591	
5,600.00	5,473.44	5,553.75	5,466.86	17.17	15.59	123.10	-944.20	-200.98	830.35	797.77	32.58	25.487	
5,700.00	5,570.89	5,652.85	5,564.24	17.52	15.91	123.12	-962.57	-201.97	843.74	810.50	33.24	25.385	
5,800.00	5,668.35	5,751.95	5,661.61	17.88	16.23	123.13	-980.95	-202.97	857.13	823.23	33.90	25.284	
5,900.00	5,765.80	5,851.05	5,758.99	18.23	16.55	123.15	-999.32	-203.96	870.52	835.96	34.57	25.184	
6,000.00	5,863.25	5,950.15	5,856.36	18.59	16.87	123.17	-1,017.69	-204.96	883.92	848.68	35.23	25.087	
6,100.00	5,960.70	6,049.25	5,953.74	18.95	17.20	123.18	-1,036.06	-205.95	897.31	861.40	35.91	24.991	
6,200.00	6,058.16	6,148.34	6,051.12	19.31	17.52	123.19	-1,054.44	-206.95	910.70	874.12	36.58	24.897	
6,300.00	6,155.61	6,247.44	6,148.49	19.67	17.85	123.21	-1,072.81	-207.94	924.09	886.84	37.26	24.804	
6,400.00	6,253.06	6,346.54	6,245.87	20.03	18.18	123.22	-1,091.18	-208.94	937.48	899.55	37.93	24.714	
6,500.00	6,350.51	6,445.26	6,249.88	20.40	24.32	136.87	-1,259.79	740.90	889.86	860.93	28.93	30.754	
6,600.00	6,447.97	6,543.60	6,229.92	20.76	24.43	137.54	-1,259.57	753.23	790.68	761.42	29.26	27.027	
6,700.00	6,545.82	6,644.87	6,229.94	21.04	24.50	-177.57	-1,259.45	760.50	691.10	661.54	29.56	23.380	
6,800.00	6,643.56	6,742.61	6,229.91	21.24	24.42	-145.72	-1,259.59	752.39	591.62	561.83	29.79	19.861	
6,900.00	6,738.83	6,840.16	6,229.85	21.40	24.21	-158.18	-1,259.99	728.80	494.66	464.72	29.93	16.526	
7,000.00	6,829.27	6,934.68	6,229.74	21.50	23.87	-165.35	-1,260.66	690.32	402.62	372.61	30.01	13.415	
7,100.00	6,912.66	7,022.25	6,229.60	21.56	23.43	-169.89	-1,261.56	637.90	317.80	287.75	30.05	10.575	
7,200.00	6,986.95	7,097.16	6,229.42	21.59	22.94	-173.39	-1,262.68	572.82	242.32	212.22	30.10	8.051	
7,300.00	7,050.31	7,161.02	6,229.20	21.58	22.44	-176.71	-1,264.00	496.69	178.10	147.88	30.22	5.894	
7,400.00	7,101.17	7,212.56	6,228.76	21.54	21.97	179.33	-1,265.48	408.25	126.64	96.08	30.57	4.143	
7,500.00	7,138.29	7,268.21	6,217.52	21.46	21.57	171.46	-1,265.21	304.62	80.18	48.12	32.06	2.501	
7,600.00	7,160.75	7,292.41	6,192.69	21.37	21.29	147.66	-1,262.17	212.24	37.20	1.23	35.97	1.034 Level 2	
7,661.32	7,167.14	7,297.11	6,172.24	21.29	21.16	100.12	-1,259.22	160.96	23.39	-16.01	39.40	0.594 Level 1, CC, ES, SF	
7,700.00	7,168.01	7,293.24	6,157.59	21.26	21.08	66.14	-1,257.00	130.51	29.39	-7.31	36.70	0.801 Level 1	
7,800.00	7,168.19	7,293.27	6,116.86	21.16	20.91	32.36	-1,250.54	62.05	73.66	38.26	35.40	2.081	
7,900.00	7,168.37	7,255.17	6,075.76	21.19	20.76	23.48	-1,243.75	8.22	133.52	96.81	36.71	3.637	
8,000.00	7,168.55	7,197.73	6,036.88	21.90	20.63	19.81	-1,237.17	-33.52	201.87	163.95	37.92	5.324	
8,100.00	7,168.73	7,150.00	6,001.87	22.80	20.53	17.91	-1,231.13	-65.38	276.30	237.40	38.90	7.102	
8,200.00	7,168.91	7,108.52	6,969.63	23.78	20.43	16.74	-1,225.51	-90.84	355.34	315.70	39.63	8.966	
8,300.00	7,169.09	7,073.85	6,941.47	24.84	20.35	15.98	-1,220.55	-110.46	437.91	397.69	40.22	10.888	
8,400.00	7,169.27	7,050.00	6,921.52	25.95	20.29	15.55	-1,217.01	-123.03	523.32	482.55	40.77	12.837	
8,500.00	7,169.45	7,018.68	6,894.65	27.12	20.21	15.06	-1,212.22	-138.38	610.80	569.75	41.05	14.880	
8,600.00	7,169.62	7,000.00	6,878.28	28.33	20.17	14.81	-1,209.28	-146.88	700.11	658.74	41.37	16.921	
8,700.00	7,169.80	6,977.18	6,857.96	29.59	20.11	14.54	-1,205.63	-156.60	790.82	749.23	41.58	19.017	
8,800.00	7,169.98	6,950.00	6,833.34	30.88	20.04	14.25	-1,201.17	-167.21	882.85	841.12	41.73	21.158	
8,900.00	7,170.16	6,950.00	6,833.34	32.21	20.04	14.25	-1,201.17	-167.21	975.60	933.63	41.97	23.247	
9,000.00	7,170.34	6,931.67	6,816.49	33.56	19.99	14.08	-1,198.11	-173.76	1,069.23	1,027.15	42.09	25.406	
9,100.00	7,170.52	6,919.65	6,805.35	34.94	19.96	13.97	-1,196.09	-177.78	1,163.58	1,121.38	42.20	27.570	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> 5N-66W-30 Offsets Incomplete - HOMYAK 2 - XOG SI Well - No Surveys												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												<b>Offset Well Error:</b>	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,700.00	7,171.60	7,201.60	7,201.60	43.64	253.42	89.26	-1,167.02	-2,994.93	1,126.57	849.19	277.38	4.061	
9,800.00	7,171.78	7,201.78	7,201.78	45.14	253.43	89.33	-1,167.02	-2,994.93	1,027.62	749.83	277.79	3.699	
9,900.00	7,171.95	7,201.95	7,201.95	46.65	253.43	89.39	-1,167.02	-2,994.93	928.89	650.59	278.30	3.338	
10,000.00	7,172.13	7,202.13	7,202.13	48.18	253.44	89.46	-1,167.02	-2,994.93	830.47	551.52	278.95	2.977	
10,100.00	7,172.31	7,202.31	7,202.31	49.71	253.44	89.53	-1,167.02	-2,994.93	732.47	452.66	279.81	2.618	
10,200.00	7,172.49	7,202.49	7,202.49	51.25	253.45	89.59	-1,167.02	-2,994.93	635.10	354.12	280.98	2.260	
10,300.00	7,172.67	7,202.67	7,202.67	52.79	253.46	89.66	-1,167.02	-2,994.93	538.69	256.04	282.64	1.906	
10,400.00	7,172.85	7,202.85	7,202.85	54.35	253.46	89.73	-1,167.02	-2,994.93	443.87	158.73	285.14	1.557	
10,500.00	7,173.03	7,203.03	7,203.03	55.91	253.47	89.79	-1,167.02	-2,994.93	351.93	62.83	289.10	1.217	Level 2
10,600.00	7,173.21	7,203.21	7,203.21	57.48	253.48	89.86	-1,167.02	-2,994.93	265.88	-29.80	295.68	0.899	Level 1
10,700.00	7,173.39	7,203.39	7,203.39	59.05	253.48	89.92	-1,167.02	-2,994.93	193.73	-112.36	306.09	0.633	Level 1
10,800.00	7,173.57	7,203.57	7,203.57	60.62	253.49	89.99	-1,167.02	-2,994.93	154.55	-160.14	314.70	0.491	Level 1
10,819.55	7,173.60	7,203.60	7,203.60	60.93	253.49	90.00	-1,167.02	-2,994.93	153.31	-161.24	314.55	0.487	Level 1, CC, ES, SF
10,900.00	7,173.75	7,203.75	7,203.75	62.20	253.50	90.05	-1,167.02	-2,994.93	173.13	-133.33	306.46	0.565	Level 1
11,000.00	7,173.93	7,203.93	7,203.93	63.79	253.50	90.12	-1,167.02	-2,994.93	236.78	-56.50	293.28	0.807	Level 1
11,100.00	7,174.11	7,204.11	7,204.11	65.38	253.51	90.19	-1,167.02	-2,994.93	319.62	34.31	285.31	1.120	Level 2
11,200.00	7,174.29	7,204.29	7,204.29	66.97	253.51	90.26	-1,167.02	-2,994.93	410.17	129.07	281.10	1.459	Level 3
11,300.00	7,174.47	7,204.47	7,204.47	68.57	253.52	90.32	-1,167.02	-2,994.93	504.31	225.47	278.84	1.809	
11,400.00	7,174.65	7,204.65	7,204.65	70.17	253.53	90.39	-1,167.02	-2,994.93	600.35	322.76	277.59	2.163	
11,500.00	7,174.83	7,204.83	7,204.83	71.77	253.53	90.46	-1,167.02	-2,994.93	697.50	420.63	276.88	2.519	
11,600.00	7,175.01	7,205.01	7,205.01	73.38	253.54	90.52	-1,167.02	-2,994.93	795.36	518.90	276.46	2.877	
11,700.00	7,175.19	7,205.19	7,205.19	74.99	253.55	90.59	-1,167.02	-2,994.93	893.69	617.46	276.23	3.235	
11,800.00	7,175.36	7,205.36	7,205.36	76.60	253.55	90.66	-1,167.02	-2,994.93	992.36	716.26	276.10	3.594	
11,900.00	7,175.54	7,205.54	7,205.54	78.22	253.56	90.73	-1,167.02	-2,994.93	1,091.27	815.22	276.05	3.953	
12,000.00	7,175.72	7,205.72	7,205.72	79.83	253.57	90.79	-1,167.02	-2,994.93	1,190.36	914.32	276.04	4.312	



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> 5N-66W-30 Offsets Incomplete - LUNDVALL 3 - Noble PR Well - No Surveys													<b>Offset Site Error:</b>	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448													<b>Offset Well Error:</b>	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,800.00	7,178.96	7,233.96	7,233.96	109.23	254.57	89.23	-1,126.11	-7,071.19	1,105.83	818.76	287.08	3.852		
13,900.00	7,179.14	7,234.14	7,234.14	110.87	254.57	89.30	-1,126.11	-7,071.19	1,006.81	718.52	288.29	3.492		
14,000.00	7,179.32	7,234.32	7,234.32	112.51	254.58	89.37	-1,126.11	-7,071.19	908.00	618.21	289.79	3.133		
14,100.00	7,179.50	7,234.50	7,234.50	114.16	254.59	89.44	-1,126.11	-7,071.19	809.48	517.78	291.70	2.775		
14,200.00	7,179.68	7,234.68	7,234.68	115.81	254.59	89.51	-1,126.11	-7,071.19	711.37	417.19	294.19	2.418		
14,300.00	7,179.86	7,234.86	7,234.86	117.45	254.60	89.58	-1,126.11	-7,071.19	613.88	316.33	297.55	2.063		
14,400.00	7,180.04	7,235.04	7,235.04	119.10	254.60	89.65	-1,126.11	-7,071.19	517.34	215.07	302.28	1.711		
14,500.00	7,180.22	7,235.22	7,235.22	120.75	254.61	89.72	-1,126.11	-7,071.19	422.42	113.17	309.25	1.366	Level 3	
14,600.00	7,180.40	7,235.40	7,235.40	122.40	254.62	89.79	-1,126.11	-7,071.19	330.51	10.38	320.13	1.032	Level 2	
14,700.00	7,180.58	7,235.58	7,235.58	124.05	254.62	89.86	-1,126.11	-7,071.19	245.01	-92.94	337.96	0.725	Level 1	
14,800.00	7,180.76	7,235.76	7,235.76	125.70	254.63	89.93	-1,126.11	-7,071.19	175.58	-189.70	365.28	0.481	Level 1	
14,896.02	7,180.93	7,235.93	7,235.93	127.28	254.64	90.00	-1,126.11	-7,071.19	146.99	-235.27	382.26	0.385	Level 1, CC, ES, SF	
14,900.00	7,180.94	7,235.94	7,235.94	127.35	254.64	90.00	-1,126.11	-7,071.19	147.05	-235.02	382.07	0.385	Level 1	
15,000.00	7,181.11	7,236.11	7,236.11	129.00	254.64	90.07	-1,126.11	-7,071.19	180.05	-176.80	356.85	0.505	Level 1	
15,100.00	7,181.29	7,236.29	7,236.29	130.65	254.65	90.14	-1,126.11	-7,071.19	251.42	-76.55	327.97	0.767	Level 1	
15,200.00	7,181.47	7,236.47	7,236.47	132.31	254.66	90.21	-1,126.11	-7,071.19	337.65	27.24	310.42	1.088	Level 2	
15,300.00	7,181.65	7,236.65	7,236.65	133.96	254.66	90.28	-1,126.11	-7,071.19	429.89	129.71	300.18	1.432	Level 3	
15,400.00	7,181.83	7,236.83	7,236.83	135.61	254.67	90.35	-1,126.11	-7,071.19	524.98	231.01	293.96	1.786		
15,492.61	7,182.00	7,237.00	7,237.00	137.14	254.67	90.42	-1,126.11	-7,071.19	614.43	324.17	290.26	2.117		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 1023-SRC Energy_ISCWSA REV 2 MWD												<b>Offset Well Error:</b>	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,400.00	7,178.24	7,387.23	7,276.51	102.66	42.91	89.47	-503.05	-6,404.10	1,141.98	1,021.40	120.58	9.471	
13,500.00	7,178.42	7,388.55	7,277.83	104.30	42.91	89.56	-503.06	-6,404.12	1,070.93	945.20	125.73	8.517	
13,600.00	7,178.60	7,389.86	7,279.14	105.94	42.91	89.66	-503.06	-6,404.13	1,004.81	873.62	131.19	7.659	
13,700.00	7,178.78	7,391.16	7,280.44	107.58	42.91	89.76	-503.07	-6,404.15	944.67	807.84	136.83	6.904	
13,800.00	7,178.96	7,392.44	7,281.73	109.23	42.91	89.85	-503.07	-6,404.16	891.72	749.29	142.42	6.261	
13,900.00	7,179.14	7,393.72	7,283.00	110.87	42.92	89.95	-503.08	-6,404.17	847.29	699.64	147.65	5.738	
14,000.00	7,179.32	7,394.99	7,284.27	112.51	42.92	90.04	-503.08	-6,404.19	812.81	660.71	152.10	5.344	
14,100.00	7,179.50	7,396.25	7,285.54	114.16	42.92	90.13	-503.09	-6,404.20	789.55	634.24	155.32	5.084	
14,200.00	7,179.68	7,397.51	7,286.79	115.81	42.92	90.22	-503.10	-6,404.21	778.55	621.63	156.92	4.961	
14,236.31	7,179.74	7,397.96	7,287.24	116.40	42.92	90.26	-503.10	-6,404.22	777.70	620.64	157.06	4.952 CC, ES, SF	
14,300.00	7,179.86	7,398.75	7,288.03	117.45	42.92	90.32	-503.10	-6,404.23	780.30	623.58	156.72	4.979	
14,400.00	7,180.04	7,399.98	7,289.27	119.10	42.92	90.41	-503.11	-6,404.24	794.74	639.96	154.78	5.135	
14,500.00	7,180.22	7,401.21	7,290.49	120.75	42.92	90.50	-503.11	-6,404.25	821.18	669.79	151.39	5.424	
14,600.00	7,180.40	7,402.43	7,291.71	122.40	42.93	90.59	-503.12	-6,404.26	858.52	711.53	146.99	5.841	
14,700.00	7,180.58	7,403.64	7,292.92	124.05	42.93	90.68	-503.12	-6,404.28	905.42	763.40	142.02	6.375	
14,800.00	7,180.76	7,404.84	7,294.12	125.70	42.93	90.76	-503.13	-6,404.29	960.47	823.63	136.84	7.019	
14,900.00	7,180.94	7,406.03	7,295.31	127.35	42.93	90.85	-503.13	-6,404.30	1,022.37	890.64	131.72	7.761	
15,000.00	7,181.11	7,407.21	7,296.49	129.00	42.93	90.94	-503.14	-6,404.31	1,089.93	963.09	126.84	8.593	
15,100.00	7,181.29	7,408.39	7,297.67	130.65	42.93	91.03	-503.14	-6,404.33	1,162.18	1,039.89	122.29	9.504	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>		5N-66W-30 Offsets Incomplete - MOSSBERG PMJ 30-10 - Noble PR Well - No Surveys										<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b>		100-SRC Energy_2" CONE_2.448										<b>Offset Well Error:</b>	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
11,900.00	7,175.54	7,204.46	7,195.54	78.22	253.52	-89.97	-2,434.18	-4,435.93	1,182.16	855.48	326.68	3.619	
12,000.00	7,175.72	7,204.28	7,195.72	79.83	253.51	-89.98	-2,434.18	-4,435.93	1,156.87	826.54	330.33	3.502	
12,100.00	7,175.90	7,204.10	7,195.90	81.45	253.51	-89.99	-2,434.18	-4,435.93	1,139.82	806.20	333.63	3.416	
12,200.00	7,176.08	7,203.92	7,196.08	83.08	253.50	-90.00	-2,434.18	-4,435.93	1,131.39	794.95	336.44	3.363	
12,245.77	7,176.17	7,203.83	7,196.17	83.82	253.50	-90.00	-2,434.18	-4,435.93	1,130.46	792.91	337.55	3.349 CC, ES	
12,300.00	7,176.26	7,203.74	7,196.26	84.70	253.50	-90.00	-2,434.18	-4,435.93	1,131.76	793.07	338.69	3.342 SF	
12,400.00	7,176.44	7,203.56	7,196.44	86.32	253.49	-90.01	-2,434.18	-4,435.93	1,140.93	800.61	340.32	3.353	
12,500.00	7,176.62	7,203.38	7,196.62	87.95	253.48	-90.02	-2,434.18	-4,435.93	1,158.70	817.38	341.31	3.395	
12,600.00	7,176.80	7,203.20	7,196.80	89.58	253.48	-90.03	-2,434.18	-4,435.93	1,184.66	842.95	341.71	3.467	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>		5N-66W-30 Offsets Incomplete - RICKS-PM J30-12 - Noble PR Well - No Surveys										<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b>		100-SRC Energy_2" CONE_2.448										<b>Offset Well Error:</b>	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,600.00	7,180.40	7,219.40	7,219.40	122.40	254.05	-89.97	-2,423.00	-7,088.28	1,188.01	816.92	371.09	3.201	
14,700.00	7,180.58	7,219.58	7,219.58	124.05	254.06	-89.98	-2,423.00	-7,088.28	1,166.94	791.54	375.40	3.109	
14,800.00	7,180.76	7,219.76	7,219.76	125.70	254.06	-89.99	-2,423.00	-7,088.28	1,154.18	775.18	379.00	3.045	
14,898.09	7,180.93	7,219.93	7,219.93	127.32	254.07	-90.00	-2,423.00	-7,088.28	1,150.01	768.28	381.73	3.013 CC	
14,900.00	7,180.94	7,219.94	7,219.94	127.35	254.07	-90.00	-2,423.00	-7,088.28	1,150.01	768.24	381.77	3.012 ES	
15,000.00	7,181.11	7,220.11	7,220.11	129.00	254.08	-90.01	-2,423.00	-7,088.28	1,154.51	770.90	383.62	3.010 SF	
15,100.00	7,181.29	7,220.29	7,220.29	130.65	254.08	-90.02	-2,423.00	-7,088.28	1,167.60	783.07	384.53	3.036	
15,200.00	7,181.47	7,220.47	7,220.47	132.31	254.09	-90.03	-2,423.00	-7,088.28	1,188.98	804.44	384.54	3.092	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 608-SRC Energy_ISCWSA REV 2 MWD, 7534-SRC Energy_2" CONE_2.448												<b>Offset Well Error:</b>	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,300.00	7,176.26	7,447.39	7,252.58	84.70	41.81	94.25	-1,124.72	-5,617.12	1,154.03	1,095.56	58.47	19.736	
12,400.00	7,176.44	7,446.31	7,251.50	86.32	41.81	93.87	-1,124.72	-5,617.13	1,055.17	995.68	59.48	17.739	
12,500.00	7,176.62	7,445.23	7,250.42	87.95	41.81	93.50	-1,124.71	-5,617.14	956.53	895.80	60.73	15.749	
12,600.00	7,176.80	7,444.15	7,249.34	89.58	41.81	93.13	-1,124.71	-5,617.16	858.22	795.90	62.32	13.772	
12,700.00	7,176.98	7,443.08	7,248.27	91.21	41.81	92.76	-1,124.71	-5,617.17	760.34	695.97	64.37	11.812	
12,800.00	7,177.16	7,442.01	7,247.21	92.84	41.81	92.39	-1,124.71	-5,617.18	663.09	595.97	67.12	9.880	
12,900.00	7,177.34	7,440.95	7,246.14	94.47	41.81	92.02	-1,124.71	-5,617.19	566.80	495.87	70.93	7.991	
13,000.00	7,177.52	7,439.89	7,245.09	96.11	41.80	91.65	-1,124.71	-5,617.21	472.05	395.59	76.45	6.174	
13,100.00	7,177.70	7,438.84	7,244.03	97.74	41.80	91.29	-1,124.71	-5,617.22	379.99	295.12	84.87	4.477	
13,200.00	7,177.88	7,437.79	7,242.98	99.38	41.80	90.92	-1,124.71	-5,617.23	293.19	194.87	98.32	2.982	
13,300.00	7,178.06	7,436.75	7,241.94	101.02	41.80	90.56	-1,124.71	-5,617.25	218.00	98.45	119.55	1.823	
13,400.00	7,178.24	7,435.71	7,240.90	102.66	41.80	90.20	-1,124.71	-5,617.26	170.55	27.81	142.74	1.195	Level 2
13,442.21	7,178.32	7,435.27	7,240.47	103.35	41.80	90.05	-1,124.71	-5,617.26	165.24	19.81	145.43	1.136	Level 2, CC, ES, SF
13,500.00	7,178.42	7,434.67	7,239.87	104.30	41.80	89.84	-1,124.71	-5,617.27	175.06	37.76	137.30	1.275	Level 3
13,600.00	7,178.60	7,434.37	7,238.83	105.94	41.80	89.48	-1,124.70	-5,617.28	228.48	118.58	109.89	2.079	
13,700.00	7,178.78	7,435.41	7,237.79	107.58	41.80	89.12	-1,124.70	-5,617.30	306.20	217.32	88.87	3.445	
13,800.00	7,178.96	7,436.45	7,236.75	109.23	41.80	88.76	-1,124.70	-5,617.31	394.09	317.87	76.22	5.170	
13,900.00	7,179.14	7,437.48	7,235.71	110.87	41.80	88.40	-1,124.70	-5,617.32	486.68	418.07	68.61	7.094	
14,000.00	7,179.32	7,438.52	7,234.67	112.51	41.80	88.04	-1,124.70	-5,617.34	581.73	517.87	63.86	9.110	
14,100.00	7,179.50	7,439.56	7,233.63	114.16	41.80	87.68	-1,124.70	-5,617.35	678.20	617.41	60.78	11.158	
14,200.00	7,179.68	7,440.60	7,232.60	115.81	41.80	87.32	-1,124.70	-5,617.36	775.56	716.83	58.74	13.204	
14,300.00	7,179.86	7,441.64	7,231.56	117.45	41.81	86.97	-1,124.70	-5,617.37	873.52	816.18	57.34	15.234	
14,400.00	7,180.04	7,442.68	7,230.52	119.10	41.81	86.61	-1,124.70	-5,617.39	971.89	915.52	56.38	17.239	
14,500.00	7,180.22	7,443.72	7,229.48	120.75	41.81	86.25	-1,124.69	-5,617.40	1,070.57	1,014.87	55.70	19.220	
14,600.00	7,180.40	7,443.54	7,228.74	122.40	41.78	85.99	-1,124.69	-5,617.41	1,169.47	1,114.27	55.19	21.188	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RIB = 4' @ 4908.00usft (RIG)

Offset Depths are relative to Offset Datum

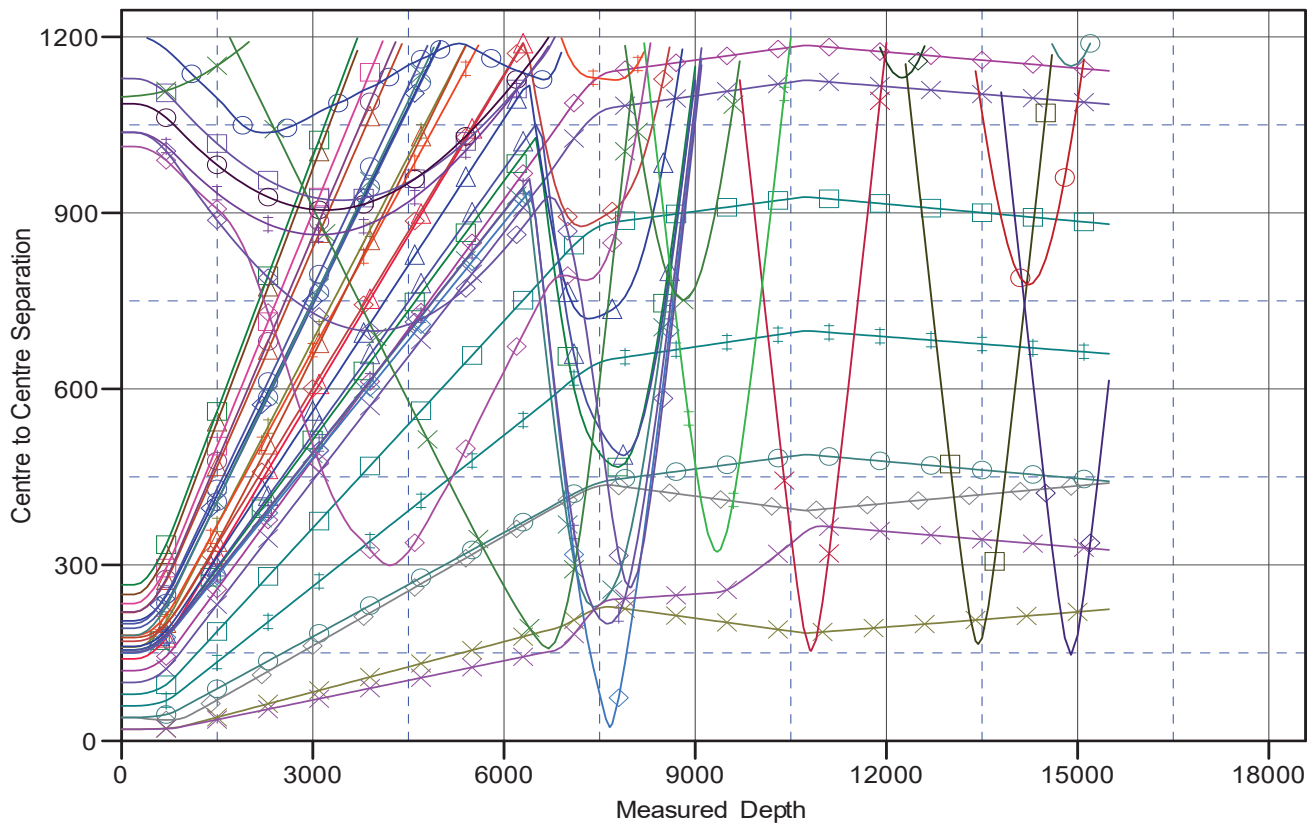
Central Meridian is -105.500000

Coordinates are relative to: SANFORD 5N-30B-M

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.45°

### Ladder Plot



#### LEGEND

SANFORD 32N-30B-M, Wellbore #1, Design #1 V0	SANFORD 28N-27C-XR, Wellbore #1, Design #1 V0	LUNDVALL 3, Noble PR Well, No Surveys V0
SANFORD 1N-27A-XR, Wellbore #1, Design #1 V0	SANFORD 30N-30B-M, Wellbore #1, Design #1 V0	HOMYAK 2 XOG SI Well, No Surveys V0
SANFORD 4N-30A-M, Wellbore #1, Design #1 V0	SANFORD 32C-30M, Wellbore #1, Design #1 V0	LUNDVALL 3 30-19, Noble PR Well, Actual Ensign Surveys V0
SANFORD 4C-30M, Wellbore #1, Design #1 V0	SANFORD 1C-27-XR, Wellbore #1, Design #1 V0	UPRC 29-7C, Noble T/A Well, No Surveys V0
SANFORD 4N-30B-M, Wellbore #1, Design #1 V0	SANFORD 30N-30A-M, Wellbore #1, Design #1 V0	KAMMERZELL 29-3H6, Noble SI Well, No Surveys V0
SANFORD 32N-30C-M, Wellbore #1, Design #1 V0	SANFORD 28N-27A-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-4H6, XOG PR Well, No Surveys V0
SANFORD 4N-30C-M, Wellbore #1, Design #1 V0	SANFORD 31N-30B-M, Wellbore #1, Design #1 V0	BENSLEY J29-21D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 1N-27B-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27C-XR, Wellbore #1, Design #1 V0	UPV 29-2H6, Noble SI Well, No Surveys V0
SANFORD 8C-27-XR, Wellbore #1, Design #1 V0	SANFORD 28C-27-XR, Wellbore #1, Design #1 V0	BENSLEY J29-18D, Noble SI Well, Actual Ensign Surveys V0
SANFORD 1N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27B-XR, Wellbore #1, Design #1 V0	BENSLEY J29-17D, Noble PR Well, Actual Ensign Surveys V0
SANFORD 41N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 28N-27C-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-4H6, Noble SI Well, No Surveys V0
SANFORD 31N-30C-M, Wellbore #1, Design #1 V0	SANFORD 30C-30-M, Wellbore #1, Design #1 V0	KAMMERZELL J29-19, Noble SI Well, Actual Corotech Gros V0
SANFORD 41N-27B-XR, Wellbore #1, Design #1 V0	STEVE J 3D-6, Noble PR Well, Actual Multishot Surveys V0	BENSLEY J29-27D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 5N-30C-M, Wellbore #1, Design #1 V0	RICKS-PM J30-12, Noble PR Well, No Surveys V0	
SANFORD 8N-27B-XR, Wellbore #1, Design #1 V0	MOSSBERGPM J30-10, Noble PR Well, No Surveys V0	

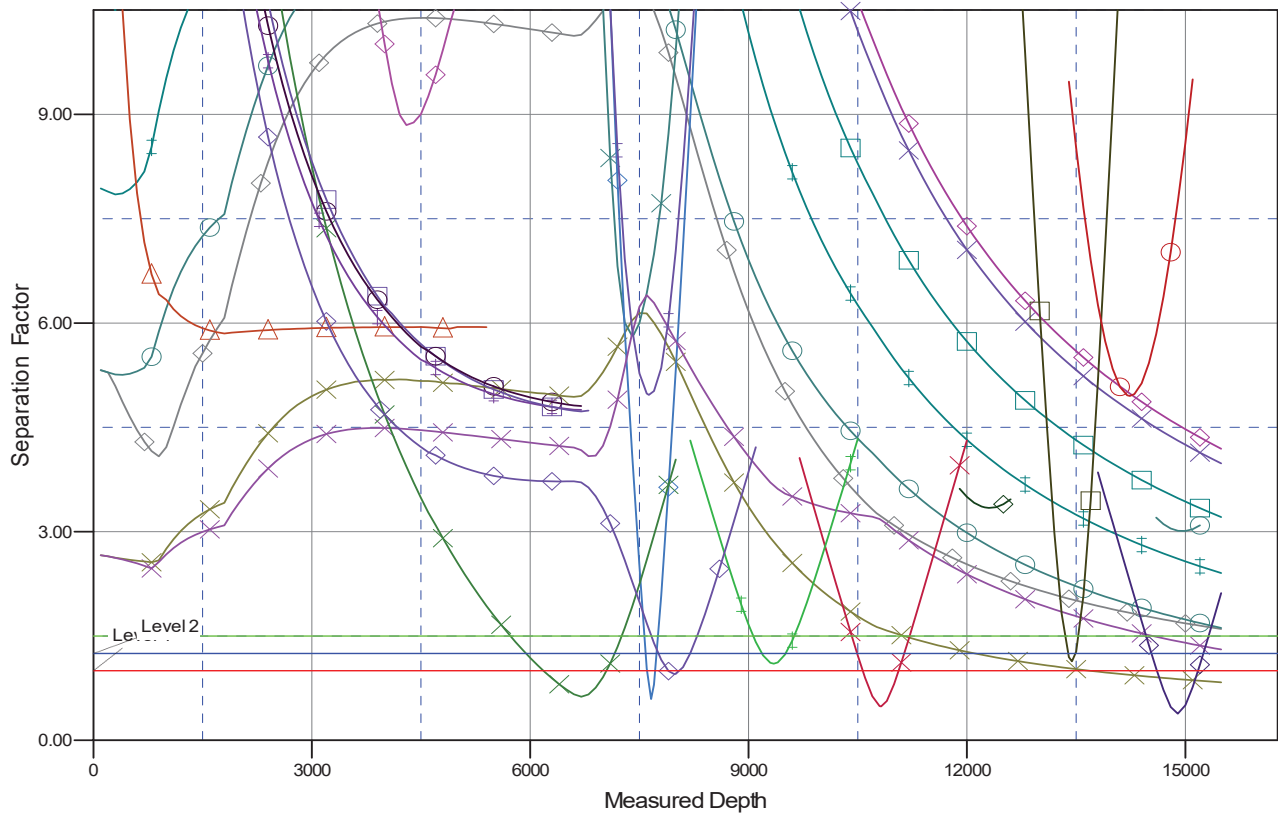
**Hewlett-Packard**  
Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 5N-30B-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RIB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 5N-30B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RIB = 4' @ 4908.00usft (RIG)  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000

Coordinates are relative to: SANFORD 5N-30B-M  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.45°

## Separation Factor Plot



### LEGEND

SANFORD 32N-30B-M, Wellbore #1, Design #1 V0	SANFORD 8N-27C-XR, Wellbore #1, Design #1 V0	LUNDVALL 3, Noble PR Well, No Surveys V0
SANFORD 1N-27A-XR, Wellbore #1, Design #1 V0	SANFORD 30N-30B-M, Wellbore #1, Design #1 V0	HOLMYAK 2, XOG SI Well, No Surveys V0
SANFORD 4N-30A-M, Wellbore #1, Design #1 V0	SANFORD 10C-30-M, Wellbore #1, Design #1 V0	LUNDVALL 3 30-19, Noble PR Well, Actual Ensign Surveys V0
SANFORD 4C-30-M, Wellbore #1, Design #1 V0	SANFORD 10C-27-XR, Wellbore #1, Design #1 V0	UPRC 29-7C, Noble T/A Well, No Surveys V0
SANFORD 4N-30B-M, Wellbore #1, Design #1 V0	SANFORD 30N-30A-M, Wellbore #1, Design #1 V0	KAMMERZELL 29-3H6, Noble SI Well, No Surveys V0
SANFORD 32N-30C-M, Wellbore #1, Design #1 V0	SANFORD 26N-27A-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-4H6, XOG PR Well, No Surveys V0
SANFORD 4N-30C-M, Wellbore #1, Design #1 V0	SANFORD 31N-30B-M, Wellbore #1, Design #1 V0	BENSLER J29-21D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 1N-27B-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27C-XR, Wellbore #1, Design #1 V0	UPV 29-2H6, Noble SI Well, No Surveys V0
SANFORD 9C-27-XR, Wellbore #1, Design #1 V0	SANFORD 28C-27-XR, Wellbore #1, Design #1 V0	BENSLER J29-18D, Noble SI Well, Actual Ensign Surveys V0
SANFORD 1N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27B-XR, Wellbore #1, Design #1 V0	BENSLER J29-17D, Noble PR Well, Actual Ensign Surveys V0
SANFORD 41N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 29N-27C-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-9H6, Noble SI Well, No Surveys V0
SANFORD 31N-30C-M, Wellbore #1, Design #1 V0	SANFORD 30C-30-M, Wellbore #1, Design #1 V0	KAMMERZELL J 29-19, Noble SI Well, Actual Coretech Gyros V0
SANFORD 41N-27B-XR, Wellbore #1, Design #1 V0	STEVE J 3D-6, Noble PR Well, Actual Multishot Surveys V0	BENSLER J29-27D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 5N-30C-M, Wellbore #1, Design #1 V0	RICKS-PM J30-12, Noble PR Well, No Surveys V0	
SANFORD 8N-27B-XR, Wellbore #1, Design #1 V0	MOSSBERGPMJ 30-10, Noble PR Well, No Surveys V0	